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Section 1

General Information

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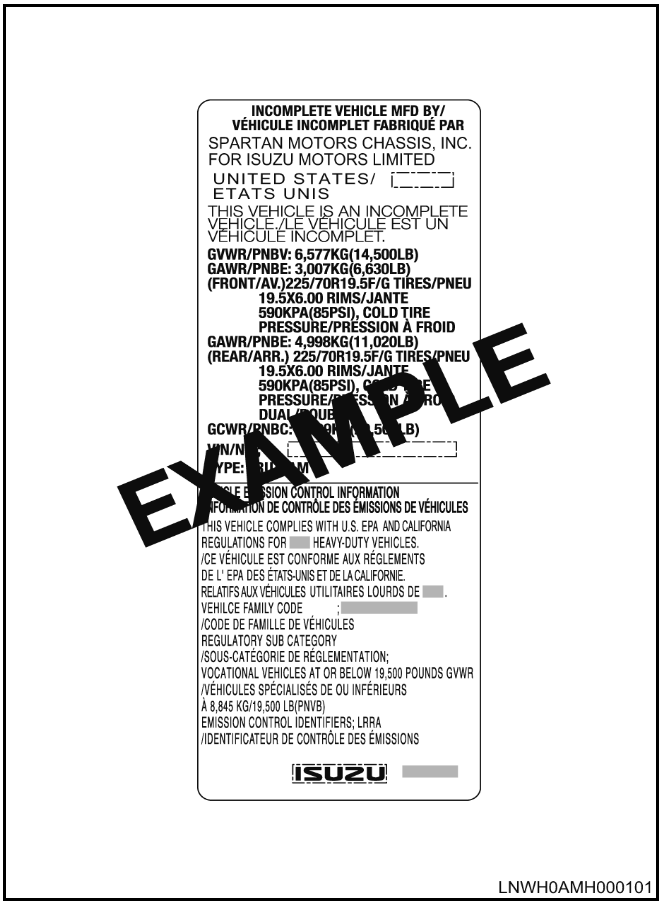
General Information

Introduction

Vehicle Certification and Greenhouse Gas (GHG) Emissions Plate

The "Vehicle Certification and Greenhouse Gas (GHG) Emissions Plate" shows the manufacturer's gross vehicle weight rating (GVWR), the front and rear gross axle weight ratings (GAWRs), as well as the VIN and emissions information for your vehicle. This plate is located on the left side rear pillar panel below the striker (single cab) or on the left center pillar panel beside the shoulder seat belt anchor (crew cab).

The VIN is a legal identifier of your vehicle. It not only appears on the "Vehicle Certification and Greenhouse Gas (GHG) Emissions Plate", but also on the vehicle title and registration. The VIN specifically identifies a vehicle by code.

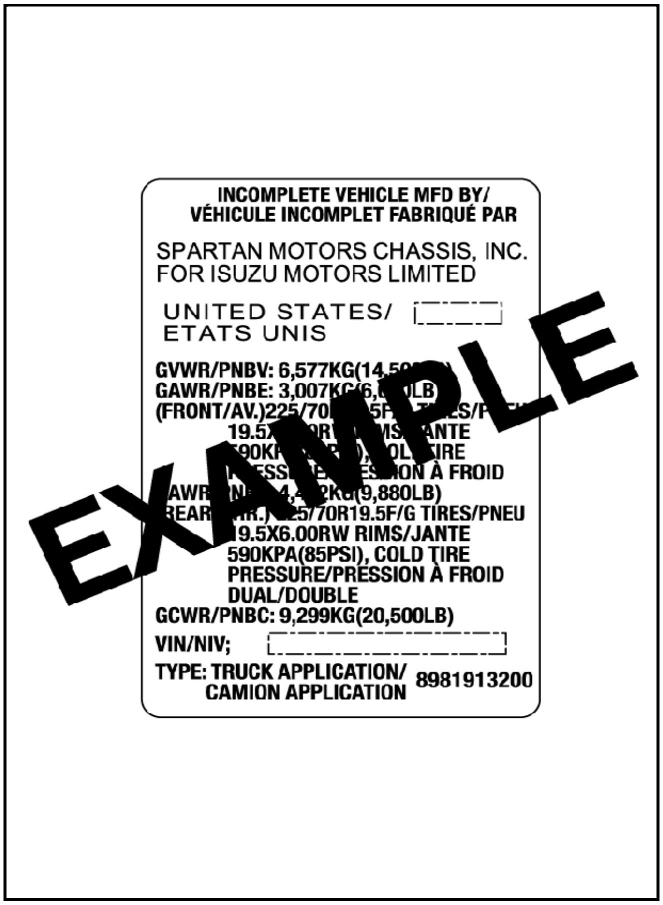

INCOMPLETE VEHICLE MFD BY/
VÉHICULE INCOMPLET FABRIQUÉ PAR
SPARTAN MOTORS CHASSIS, INC.
FOR ISUZU MOTORS LIMITED
UNITED STATES/
ETATS UNIS
THIS VEHICLE IS AN INCOMPLETE VEHICLE./LE VÉHICULE EST UN VÉHICULE INCOMPLET.
GVWR/PNBV: 6,577KG(14,500LB)
GAWR/PNBE: 3,007KG(6,630LB)
(FRONT/AV.)225/70R19.5F/G TIRES/PNEU
19.5X6.00 RIMS/JANTE
590KPA(85PSI), COLD TIRE
PRESSURE/PRESSION À FROID
GAWR/PNBE: 4,998KG(11,020LB)
(REAR/ARR.) 225/70R19.5F/G TIRES/PNEU
19.5X6.00 RIMS/JANTE
590KPA(85PSI), [illegible]
PRESSURE/[illegible]
DUAL/[illegible]
GCWR/PNBC: [illegible]LB)
VIN/N[illegible]
[illegible]YPE: [illegible]
[illegible]SSION CONTROL INFORMATION
[illegible]ON DE CONTRÔLE DES ÉMISSIONS DE VÉHICULES
THIS VEHICLE COMPLIES WITH U.S. EPA AND CALIFORNIA
REGULATIONS FOR HEAVY-DUTY VEHICLES.
/CE VÉHICULE EST CONFORME AUX RÉGLEMENTS
DE L' EPA DES ÉTATS-UNIS ET DE LA CALIFORNIE.
RELATIFS AUX VÉHICULES UTILITAIRES LOURDS DE .
VEHILCE FAMILY CODE ;
/CODE DE FAMILLE DE VÉHICULES
REGULATORY SUB CATEGORY
/SOUS-CATÉGORIE DE RÉGLEMENTATION;
VOCATIONAL VEHICLES AT OR BELOW 19,500 POUNDS GVWR
/VÉHICULES SPÉCIALISÉS DE OU INFÉRIEURS
À 8,845 KG/19,500 LB(PNVB)
EMISSION CONTROL IDENTIFIERS; LRRA
/IDENTIFICATEUR DE CONTRÔLE DES ÉMISSIONS

4554013

Vehicle Identification

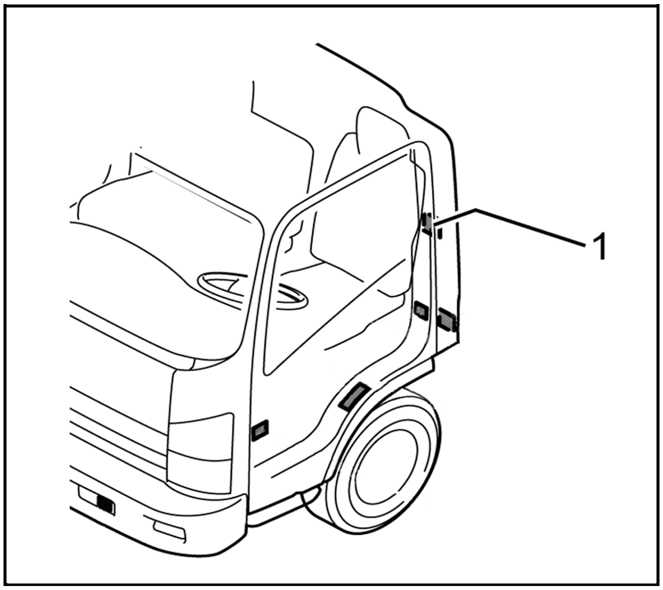
The VIN and Weight Rating Plate (1) lists the manufacturer, gross vehicle weight for the vehicle, maximum front end weight at ground, maximum rear end weight at ground, and the VIN (vehicle identification number). In the crew cab this plate is attached to the driver's side pillar above the shoulder belt bracket. In the single cab this plate is attached to the inside of the driver's side door frame.

The vehicle identification number is a legal identifier of your vehicle. It not only appears on the VIN plate, but also on the Vehicle Certificates of Title and Registration. The vehicle identification number specifically identifies a vehicle by code.


INCOMPLETE VEHICLE MFD BY/
VÉHICULE INCOMPLET FABRIQUÉ PAR
SPARTAN MOTORS CHASSIS, INC.
FOR ISUZU MOTORS LIMITED
UNITED STATES/
ETATS UNIS
GVWR/PNBV: 6,577KG(14,5[illegible]
GAWR/PNBE: 3,007K[illegible](6,[illegible]LB)
(FRONT/AV.)225/70[illegible]5F[illegible]ES/P[illegible]
19.5X[illegible]0R[illegible]MS/[illegible]ANTE
[illegible]90KP[illegible]), [illegible]OL[illegible]IRE
[illegible]ESS[illegible]ESSION À FROID
[illegible]AWR[illegible]4,4[illegible]2KG(9,880LB)
[illegible]REAR[illegible]R.) [illegible]25/70R19.5F/G TIRES/PNEU
19.5X6.00RW RIMS/JANTE
590KPA(85PSI), COLD TIRE
PRESSURE/PRESSION À FROID
DUAL/DOUBLE
GCWR/PNBC: 9,299KG(20,500LB)
VIN/NIV;
TYPE: TRUCK APPLICATION/
CAMION APPLICATION 8981913200

4554018

VIN Derivative



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The vehicle identification number (VIN) is located on a label on the driver side B-pillar (1).

Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
1	Country of Origin	J	Japan (JAL)
		5	United States (54D)
2	Manufacturer	A	Isuzu Motors Ltd.
		4	Spartan Motors Chassis Inc.
3	Make	L	Incomplete Vehicle — Medium and Heavy Duty
		D	Incomplete Vehicle
4	GVWR/Brake System/Body Style	B	10,001–14,000 lbs/Hydraulic/03–Regular Cab
		C	10,001–14,000 lbs/Hydraulic/43–Crew Cab
		B	14,001–16,000 lbs/Hydraulic/03–Regular Cab
		C	14,001–16,000 lbs/Hydraulic/43–Crew Cab
5	Make/Sieres	D	GM Chevrolet 3500 / 3500HD / 4500
6	Line/Cab Type	J	Non-Tilt Cab, BBC = 110 Inches
		W	Tilt Cab, BBC = 71 Inches
7	Chassis Type	1	4x2, 2 Axles, 1 Driving
8	Engine Type	B	L96 - ENGINE GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
		C	LC8 - ENGINE LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
		7	IZ3 - ENGINE DIESEL, 4 CYL, 3.0L, 4JJ1-TC 150HP
9	Check Digit	—	0~9, X - Calculated by POMS
10	Model Year	G	2017
11	Plant Location	S	When VIN position 1 is "1" (USA): Charlotte, Michigan
		7	Fujisawa, Japan
12	Model Combination	F	3500HD/4JJ1 Diesel/13,000 lbs
		8	3500 and 4500/Gas
13–17	Sequence Number	—	Positions 13 through 17 represent the number sequentially assigned by the manufacturer in the production process.

6.0L Engine ID and VIN Derivative Location

Refer to Engine Identification.

6L90 Transmission ID and VIN Derivative Location

Refer to Transmission Identification Information.

GVWR (Gross Vehicle Weight Rating)

The GVWR is the weight of a vehicle plus the weight of a vehicle's load. For the gross vehicle weight rating and the gross vehicle combined weight rating, refer to Model Explanation. For the gross vehicle weight rating range refer to the *Vehicle Identification on page 1-3* for VIN Chart.

RPO Code List

The RPO list contains RPOs available on this model. Also, refer to the Service Parts Identification label for a list of the RPOs used on each specific vehicle.

Option Code	Option Description
062	RATIO-5.12
068	RATIO-5.37
14B	TRIM COMBINATION-CLOTH, VERY DK GRAY (B) (97)
16U	PRIMARY COLOR-EXTERIOR, WHITE (02)152D
1WT	PACKAGE-WT OPTION 1
24J	SEAT BELT COLOR-RED, DRIVER SEAT ONLY
24K	SEAT BELT COLOR-RED, DRIVER AND PASSENGER SEAT
2TA	TIRE FRONT-LT215/85R16 E 115/112 L BW ALS VAR1
2TB	TIRE FRONT-225/70R19.5F 125/123L BW HWY VAR1
2TC	TIRE FRONT-225/70R19.5 G 125/123 L BW HWY VAR1.

Option Code	Option Description
3TA	TIRE REAR-LT215/85R16 E 115/112 L BW ALS VAR1
3TB	TIRE REAR-225/70R19.5F 125/123L BW HWY VAR1
3TC	TIRE REAR-225/70R19.5 G 128/126 L BW HWY VAR1
41U	PRIMARY COLOR-EXTERIOR, BLACK (8555)
46U	PRIMARY COLOR-EXTERIOR, DK GREEN (02)
47U	PRIMARY COLOR-EXTERIOR, DK BLUE MET (02)
69I	INTERIOR TRIM-VERY DK PEWTER (01)
74U	PRIMARY COLOR-EXTERIOR, CARDINAL RED (02)
86U	PRIMARY COLOR-EXTERIOR, YELLOW (02)
9B9	GOVERNOR-ELECTRONIC SPEED SENSOR - 70 MPH
9C2	GOVERNOR-ELECTRONIC SPEED SENSOR - 65 MPH
9D2	GOVERNOR-ELECTRONIC SPEED SENSOR - 58 MPH
9E2	GOVERNOR-ELECTRONIC SPEED SENSOR - 68 MPH
9W8	COVER-SEAT PROTECTOR
A1F	SEAT-FRT BKT, HIGH BACK, DRIVER & PASS
A1G	SEAT-FRT BKT, HIGH BACK, DRIVER ONLY AIR SUSPENSION & PASS
A31	WINDOW-POWER OPERATED, ALL DOORS (DO NOT USE ON NEW/MAJOR PROGRAMS)
ATG	LOCK CONTROL, ENTRY-REMOTE ENTRY, STANDARD RANGE
AU3	LOCK CONTROL-SIDE DR, ELEC
C42	HVAC SYSTEM-HEATER, OUTSIDE AIR, DELUXE
C60	HVAC SYSTEM-AIR CONDITIONER FRT, MAN CONTROLS
C7J	GVW RATING-13,000 LBS
C7L	GVW RATING-12,000 LBS
C7P	GVW RATING-16,000 LBS
C7S	GVW RATING-14,500 LBS
C7X	GVW RATING-17,950 LBS
CD7	WIPER SYS WINDSHIELD-PULSE, WET ARM
CSM	PLANT CODE-CHARLOTTE, MI, USA
DB5	MIRROR O/S-LH & RH, WIDE LOAD, INTEGRAL ARM
DB6	MIRROR O/S-LH & RH, WIDE LOAD, ELEC REMOTE CONTROL, LIGHTED, HEATED, INTEGRAL ARM
DB8	MIRROR O/S-LH & RH, WIDE LOAD, HEATED, INTEGRAL ARM
E01	STEPS-ASSIST
E8C	EQUIPMENT-CAN INTERFACE CONVERTER
EB4	WHEELBASE-109 INCH

Option Code	Option Description
EF7	COUNTRY-UNITED STATES OF AMERICA (USA)
EL5	WHEELBASE-212 INCH
EM2	WHEELBASE-200 INCH
FHO	VEHICLE FUEL-GASOLINE E10
FHX	VEHICLE FUEL-DIESEL B20
FL5	AXLE FRONT-6,830 LB (3,098 KG)
FL6	AXLE FRONT-7,275 LB (3,299 KG)
FL9	SUSPENSION FRONT-6,830 LB (3,098 KG), TAPERED LEAF
FM2	SUSPENSION FRONT-8,440 LB, 3,828 KG) TAPERED LEAF
FNJ	WHEELBASE-132.5 INCH / 3,365 MM
FNW	WHEELBASE-176 INCH
FU3	SUSPENSION REAR-9,880 LB (4,481 KG), MULTILEAF
FU4	SUSPENSION REAR-12,900 LB (5,851 KG), MULTILEAF
FU5	SUSPENSION REAR-14,308 LB (6,490 KG), MULTILEAF
FU6	SUSPENSION REAR-14,550 LB (6,559 KG), MULTILEAF
FUJ	PLANT CODE-FUJISAWA, JAPAN
FWH	WHEELBASE-150 INCH/3,815 MM
G7M	EQUIPMENT-AIR DEFLECTOR - OVER CAB
G86	AXLE-LIMITED SLIP
HNF	INTERIOR TRIM CONFIG-CLOTH, V DK PEWTER
GZG	GVW RATING-19,500 LBS
HNF	INTERIOR TRIM CONFIG-CLOTH, V DK PEWTER
HS6	AXLE REAR-11,020 LB (4,998 KG)
HS9	AXLE REAR-14,550LB (6,599 KG)
I17	ENGINEERING YEAR-2017
I1B	ENGINE-DIESEL, 4 CYL, 5.2L, 4HK1TC 215HP
IR7	TRANSMISSION-AUTO 6 SPD, HMD, A465
IX0	TRANSMISSION-AUTO 6 SPD, HMD, A460
IX2	SWITCH-DOME LAMP, REAR BODY
IZ3	ENGINE-DIESEL, 4 CYL, 3.0L, 4JJ1-TC 150HP
J69	BRAKE PARKING-MECHANICALLY OPERATED
JE5	BRAKE SYSTEM-PWR, ANTILOCK, FRT & RR WHL
K05	HEATER ENG-BLOCK
K34	CRUISE CONTROL-AUTOMATIC, ELECTRONIC
K40	ENGINE BRAKE-EXHAUST
K45	AIR CLEANER-HEAVY DUTY
K63	GENERATOR-110 AMP
KG3	GENERATOR-145 AMP

Option Code	Option Description
KG9	GENERATOR-140 AMP
KPG	CAP-DEF FILL, LOCKING
KPJ	ENGINE SHUTDOWN-AUTOMATIC
KPK	HEATER-OIL PAN
KQJ	ENGINE SHUTDOWN-AUTOMATIC, 3 MINUTE TIMER
KQN	ENGINE SHUTDOWN-AUTOMATIC, 5 MINUTE TIMER
KQS	CAP-DEF FILL, LOCKING, KEYED ALIKE
L96	ENGINE-GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
LC8	ENGINE-LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
MAH	MARKETING AREA-US, PUERTO RICO/USVI
MTE	PROVISIONS-FIRE EXTINGUISHER / SAFETY REFLECTOR KIT MOUNTING
MYD	TRANSMISSION-AUTO 6 SPD, HMD, 6L90
N33	STEERING COLUMN-TILT TYPE
N3R	STEERING WHEEL-URETHANE
N4C	CERTIFICATION-EMISSION, USA 50 STATE
N4E	EMISSION SYSTEM-USA, 50 STATE
NB5	EXHAUST SYSTEM-SINGLE
NC2	EXHAUST SYSTEM-SINGLE HORIZONTAL
NH2	FUEL TANK-113L, 30 GAL
NL7	FUEL TANK-FRONT, 25 GAL
NLX	TANK-FUEL, LH MOUNT, 33 GAL ADDITIONAL
NPV	EXHAUST SYSTEM-SINGLE VERTICAL MUFF & TAILPIPE CAB MOUNTED
PTO	ENGINE CONTROL-POWER TAKE OFF (PTO) CONTROLS
PTX	ENGINE CONTROL-POWER TAKE-OFF (PTO), CONTROLS - NONE
PWJ	WHEEL-16 X 6.0, K, STEEL, DESIGN 1
PWK	WHEEL-19.5 X 6.0, K STEEL, DESIGN 1
RQ2	VEHICLE APPLICATION-TRUCK SERVICE
RWL	CHASSIS DRIVE LINE-REAR WHEEL DRIVE (RWD)
TP6	BATTERY-750 CCA, 12V, (SINGLE)
TP7	BATTERY-750 CCA, 12V, (DUAL)
UAD	SPEAKER SYSTEM-2, FRONT, BASE
UDH	DISPLAY INSTRUMENT-DRIVER INFO (ONE COLOR GRAPHIC)
UIY	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT
UIZ	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT, BLUETOOTH
UL5	RADIO-(NONE)
UZF	ALARM B/U-ELECTRICAL
V22	GRILLE-RADIATOR, CHROME
V8D	VEHICLE STATEMENT-US

Option Code	Option Description
VT7	OWNERS MANUAL-ENGLISH LANGUAGE
VXT	VEHICLE TYPE-INCOMPLETE
WMH	VIN MODEL YEAR-2017
X88	MARKET BRAND-CHEVROLET
XWL	MIRROR PROVISIONS-102" MIRROR BRACKET
ZY1	COLOR COMBINATION-SOLID

Section 2

HVAC

Heating and Ventilation 2-3
  Schematic and Routing Diagrams 2-3
    HVAC Schematics 2-4
  Description and Operation 2-5
    Heating and Ventilation System 2-5

Air Conditioning 2-11
  Schematic and Routing Diagrams 2-11
    Air Conditioning System Schematic 2-12
  Description and Operation 2-15
    Air Conditioning System 2-15

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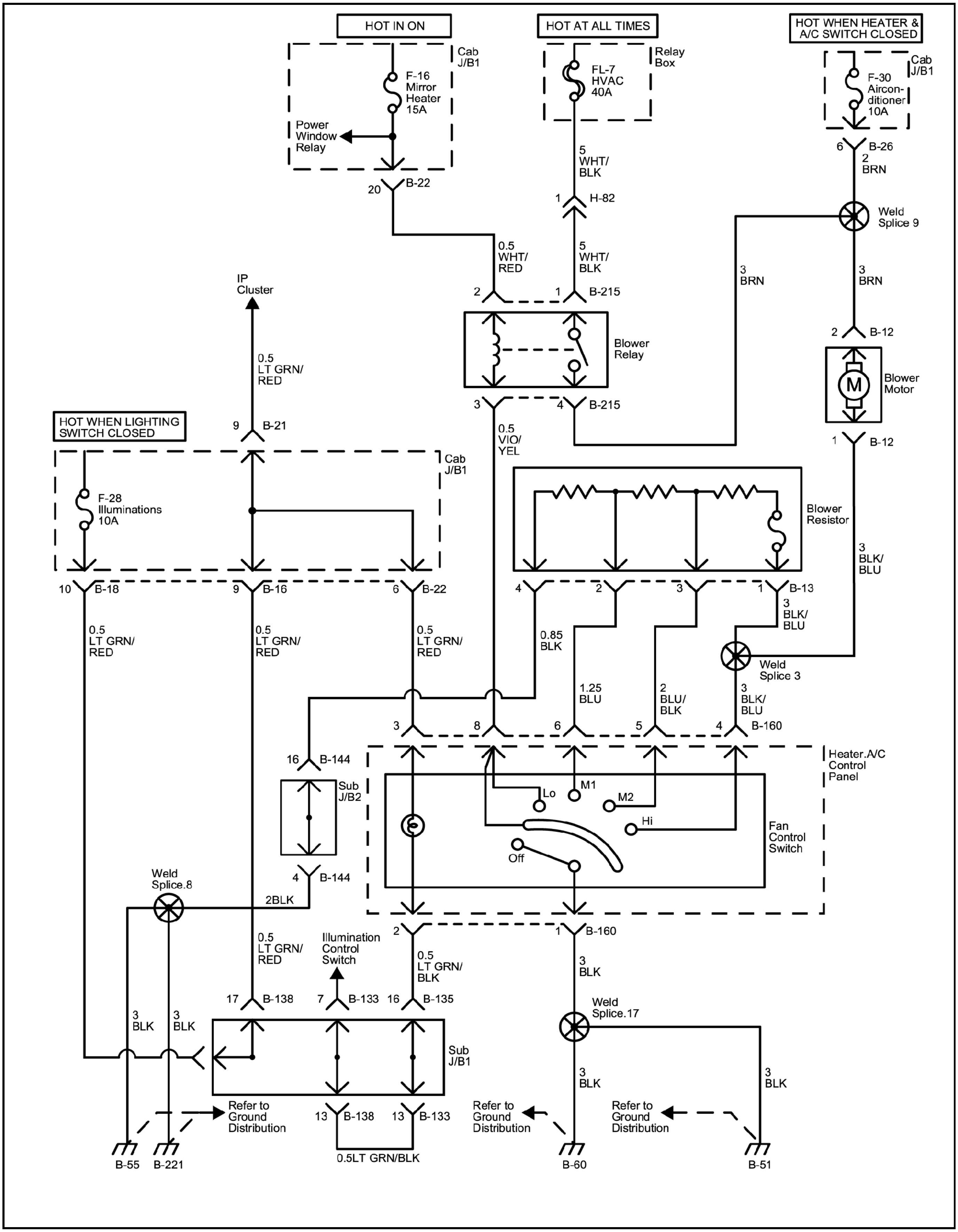
Heating and Ventilation

Schematic and Routing Diagrams

HVAC Schematics


HOT IN ON
Cab J/B1
F-16 Mirror Heater 15A
Power Window Relay
20
B-22
HOT AT ALL TIMES
Relay Box
FL-7 HVAC 40A
5 WHT/ BLK
1
H-82
5 WHT/ BLK
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Aircon-ditioner 10A
6
B-26
2 BRN
Weld Splice 9
3 BRN
3 BRN
2
B-12
Blower Motor
M
1
B-12
3 BLK/ BLU
0.5 WHT/ RED
2
1
B-215
Blower Relay
3
4
B-215
0.5 VIO/ YEL
IP Cluster
0.5 LT GRN/ RED
9
B-21
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-28 Illuminations 10A
10
B-18
9
B-16
6
B-22
Blower Resistor
4
2
3
1
B-13
3 BLK/ BLU
Weld Splice 3
0.5 LT GRN/ RED
0.5 LT GRN/ RED
0.5 LT GRN/ RED
0.85 BLK
1.25 BLU
2 BLU/ BLK
3 BLK/ BLU
3
8
6
5
4
B-160
16
B-144
Sub J/B2
4
B-144
Heater.A/C Control Panel
Lo
M1
M2
Hi
Off
Fan Control Switch
Weld Splice.8
2BLK
2
1
B-160
0.5 LT GRN/ RED
Illumination Control Switch
0.5 LT GRN/ BLK
3 BLK
Weld Splice.17
17
B-138
7
B-133
16
B-135
3 BLK
3 BLK
Sub J/B1
3 BLK
3 BLK
Refer to Ground Distribution
13
B-138
13
B-133
Refer to Ground Distribution
Refer to Ground Distribution
0.5LT GRN/BLK
B-55
B-221
B-60
B-51

4554038

Description and Operation

Heating and Ventilation System

Heater

After the engine warms up, the heater system uses the warm engine coolant to supply warm air to the vehicle interior.

Outside air is supplied to the vehicle interior through the heater core of the heater unit.

Temperature inside the vehicle is adjusted appropriately by controlling the mixture of air between the outside air and heater core.

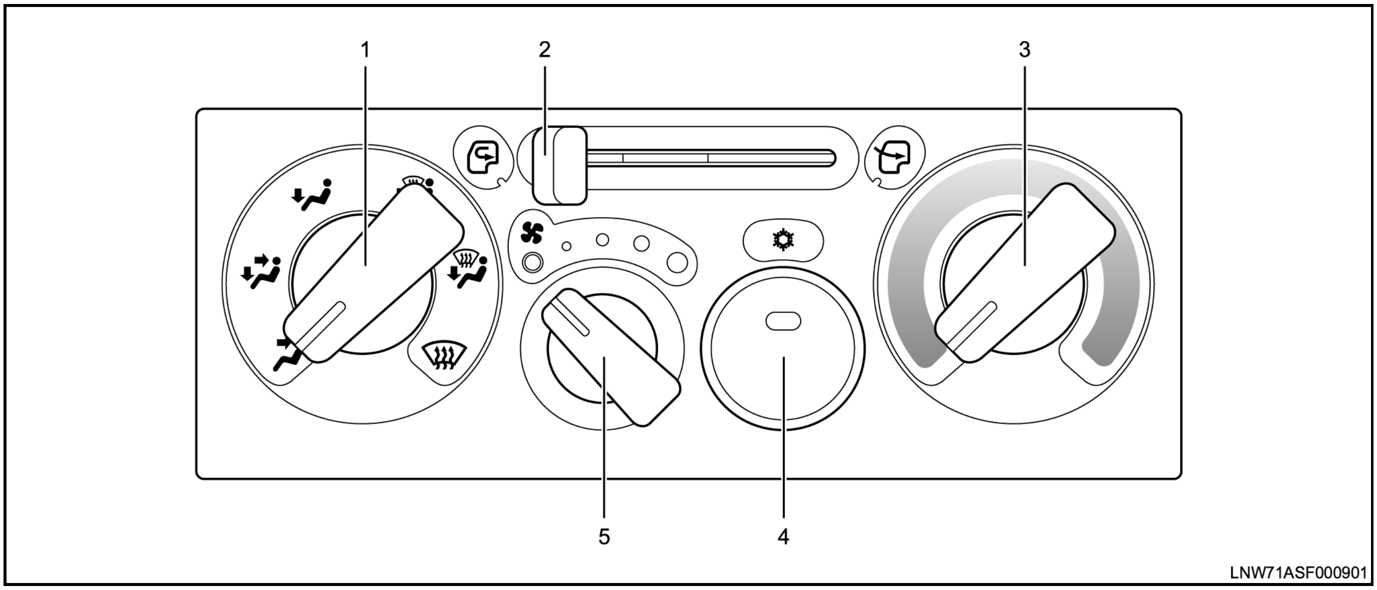
Temperature of the air that is supplied to the vehicle interior is controlled using the temperature control knob. This knob controls air temperature inside the vehicle by opening/closing the air mix door of the heater unit to control the amount of air that passes through the heater core.

Use the air selector knob to select an arbitrary air outlet inside the vehicle by altering the mode accordingly.

Use the air source selector lever to select "outside air intake" or "inside air circulation". Set this to "FRESH" to enable intake of outside air at all times. (Inside air will also be partially mixed.) Set the lever to "RECIRC" to enable inside air circulation without intaking outside air. Doing so speeds up heating of the vehicle interior by the heater, but this may cause fogging of the front window. To prevent fogging, set to "FRESH".

Control Lever ASM

The control lever ASM enables selection of air outlet of the heater, temperature adjustment, and switching between inside and outside air of the blower ASM via the cable. The fan control is used to control the amount of air sent out at four levels from "Low" to "High", by a resistor.



4444755

Legend

(1) Air Selector Knob
(2) Air-source Selector Lever
(3) Temperature Control Knob
(4) Air Conditioning Switch (with A/C)
(5) Fan Control Knob (Fan Control Switch)

Fan Control Knob (Fan Control Switch)

Use this knob to control the blower motor rotation via the resistor, thereby adjusting the amount of air to be supplied to defrost, foot and the ventilator.

The knob has four different setting positions.

1. LOW
2. MEDIUM LOW
3. MEDIUM HIGH
4. HIGH

Air-source Selector Lever

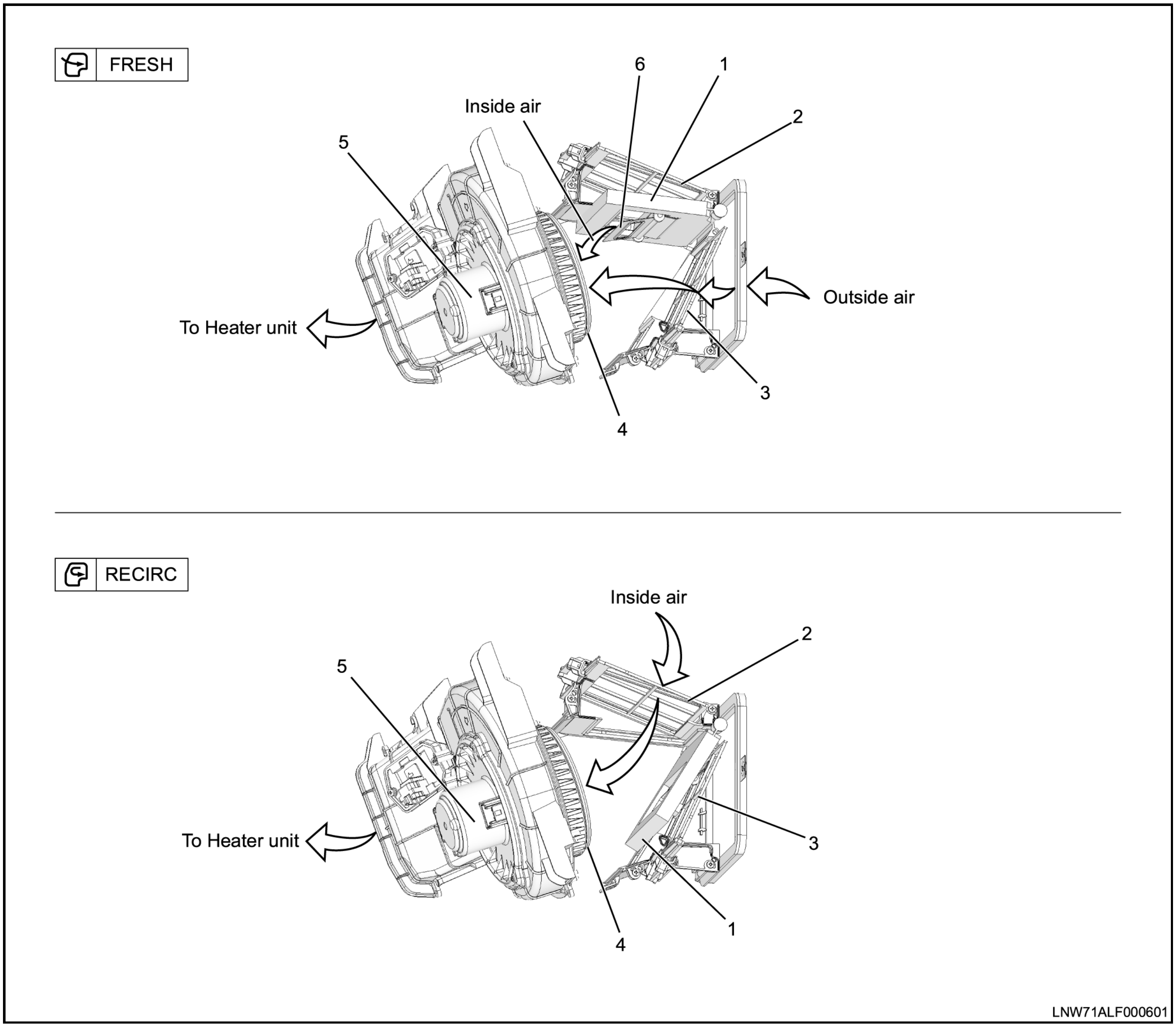
Slide this lever to the left or right to select either "FRESH" or "RECIRC".

Ventilation

If the air source select lever is moved to the "FRESH" position, a constant supply of outside air is introduced into the cabin. (For improved heating performance, a portion of the inside air is mixed with the air being introduced from outside by way of the blower ASM’s inside air intake door.)

The blower fan brings outside air into the vehicle’s cabin, and works to correctly maintain ventilation.

If the air source select lever is moved to the "RECIRC" position, the air inside the cabin is constantly circulated, without air from outside being introduced.



4444772

Legend

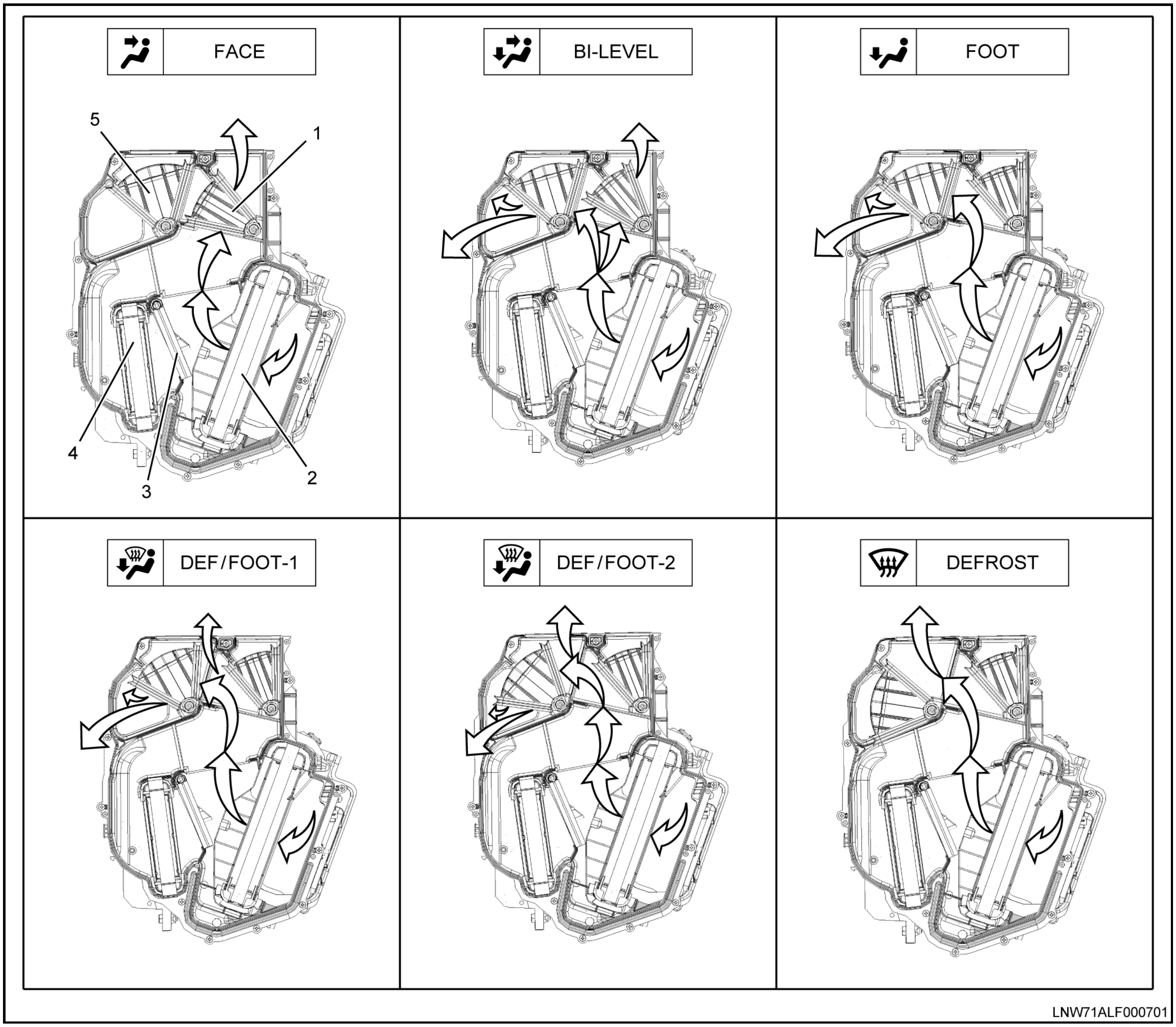
(1)	Intake Door	(4)	Blower Fan
(2)	Inside Air Filter	(5)	Blower Motor
(3)	Outside Air Filter	(6)	Inside Air Intake Door

Air Selector Knob

The air select knob supplies air to the vehicle interior through the various outlets.

The vent blowing air changes due to an adjustment of the position of the two types of rotary style mode door inside the heater unit. These mode doors adjust the opening range of each vent from the heater unit, cut off the opening, and ventilate the door’s interior, allowing for six different blow patterns to be selected.

- FACE: Setting to this position supplies air to the vehicle interior through the ventilation duct (1 and 2). Control the amount of air using the fan control knob (fan control switch).
- BI-LEVEL: Setting to this position supplies air to the vehicle interior by dividing air in the heater unit into two levels (1, 2 and 5). When the temperature control knob is set to the center position, air that is supplied to the feet through the foot duct (5) is set to a higher temperature than the air that is supplied through the ventilation duct (1 and 2).
- FOOT: Setting to this position supplies the entire amount of air to the feet through the foot duct (5).
- DEF/FOOT-1: Setting to this position supplies a smaller amount of air to the feet (5) than the "FOOT" mode, and a small amount of air is supplied for defrosting (3 and 4).
- DEF/FOOT-2: Setting to this position increases the amount of air for defrosting (3 and 4) as compared with DEF/FOOT-1, and decreases the amount of air to be supplied to the feet (5).
- DEFROST: Setting to this position supplies a large proportion of the air to the front window (4) and a small amount of air to the side windows (3).


FACE
BI-LEVEL
FOOT
5
1
4
3
2
DEF / FOOT-1
DEF / FOOT-2
DEFROST
LNW71ALF000701

4444795

Legend

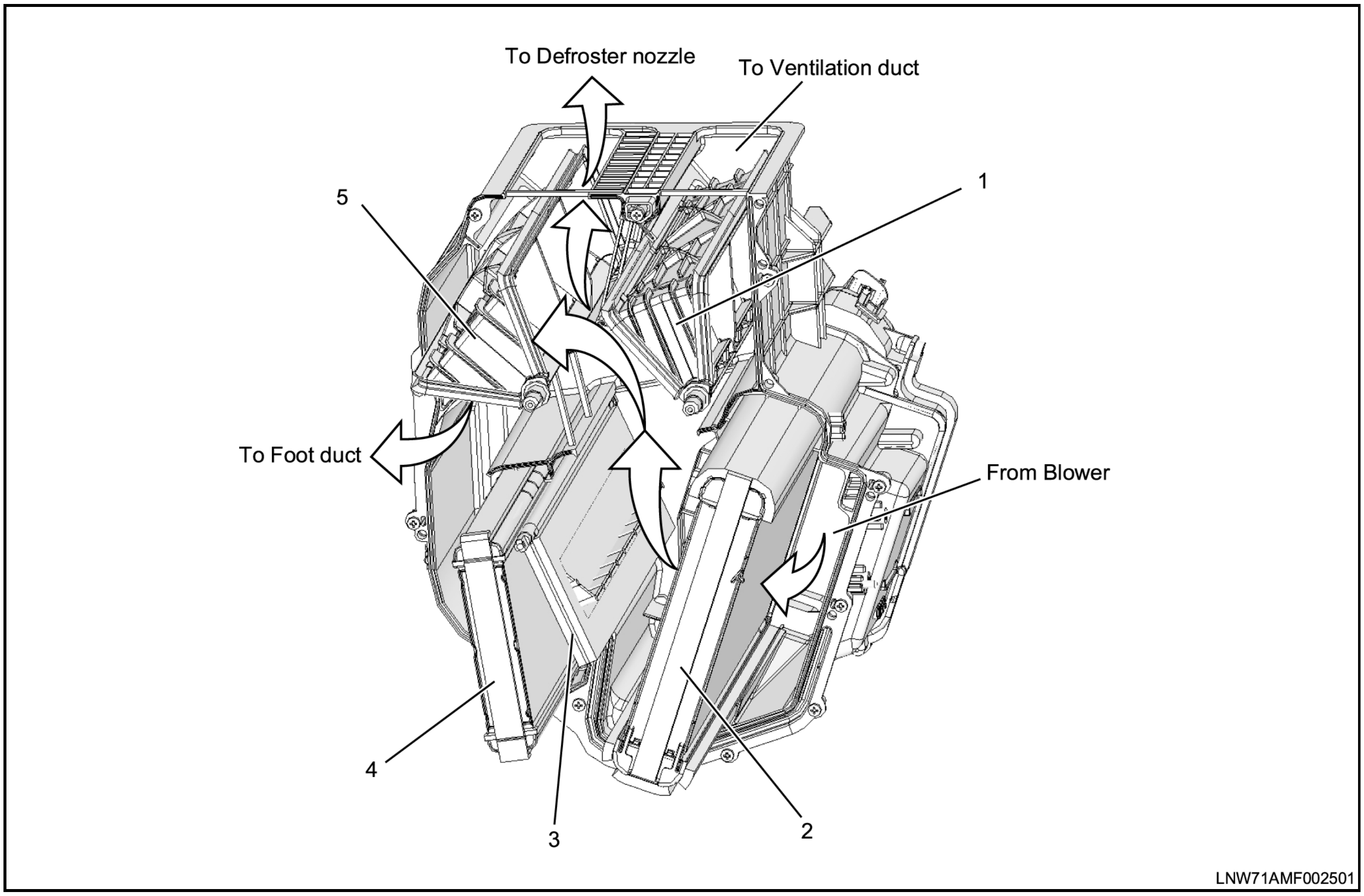
(1) Mode Door (FACE)

(2) Evaporator Core (with A/C)

(3) Air Mix Door

(4) Heater Core

(5) Mode Door (FOOT/DEF)


To Defroster nozzle
To Ventilation duct
1
5
To Foot duct
From Blower
4
3
2
LNW71AMF002501

4444799

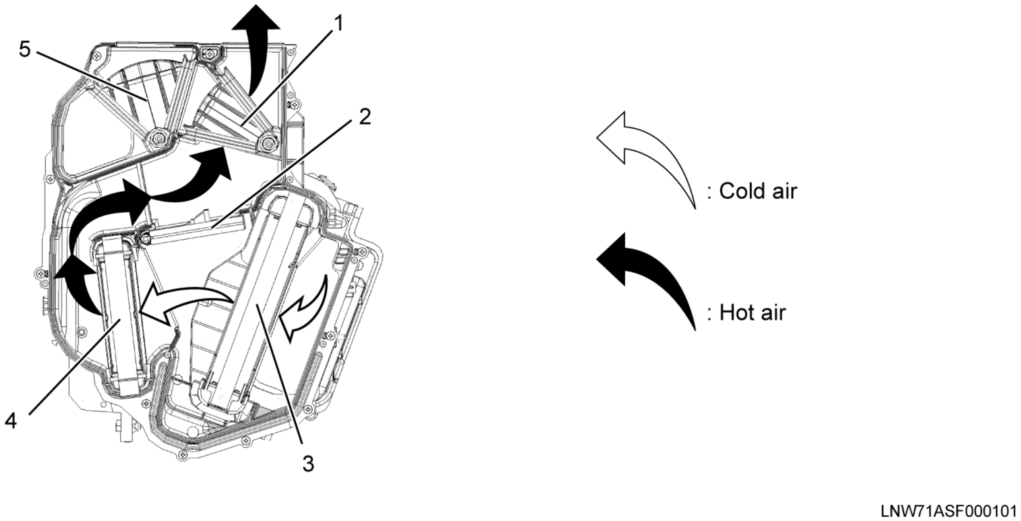
Legend

(1)	Mode Door (FACE)	(4)	Heater Core
(2)	Evaporator Core (with A/C)	(5)	Mode Door (FOOT/DEF)
(3)	Air Mix Door		

Temperature Control Knob

Setting the temperature control knob to the "MAX COLD" position closes the air mix door and shuts out air flow into the heater core. Setting the knob to the "MAX HOT" position opens the air mix door, thereby enabling heating of the vehicle interior via air through the heater core.

Setting the knob to the center position enables adjustment of the temperature inside the vehicle by increasing or decreasing the air supply to the heater core.


1
2
3
4
5
: Cold air
: Hot air
LNW71ASF000101

4444813

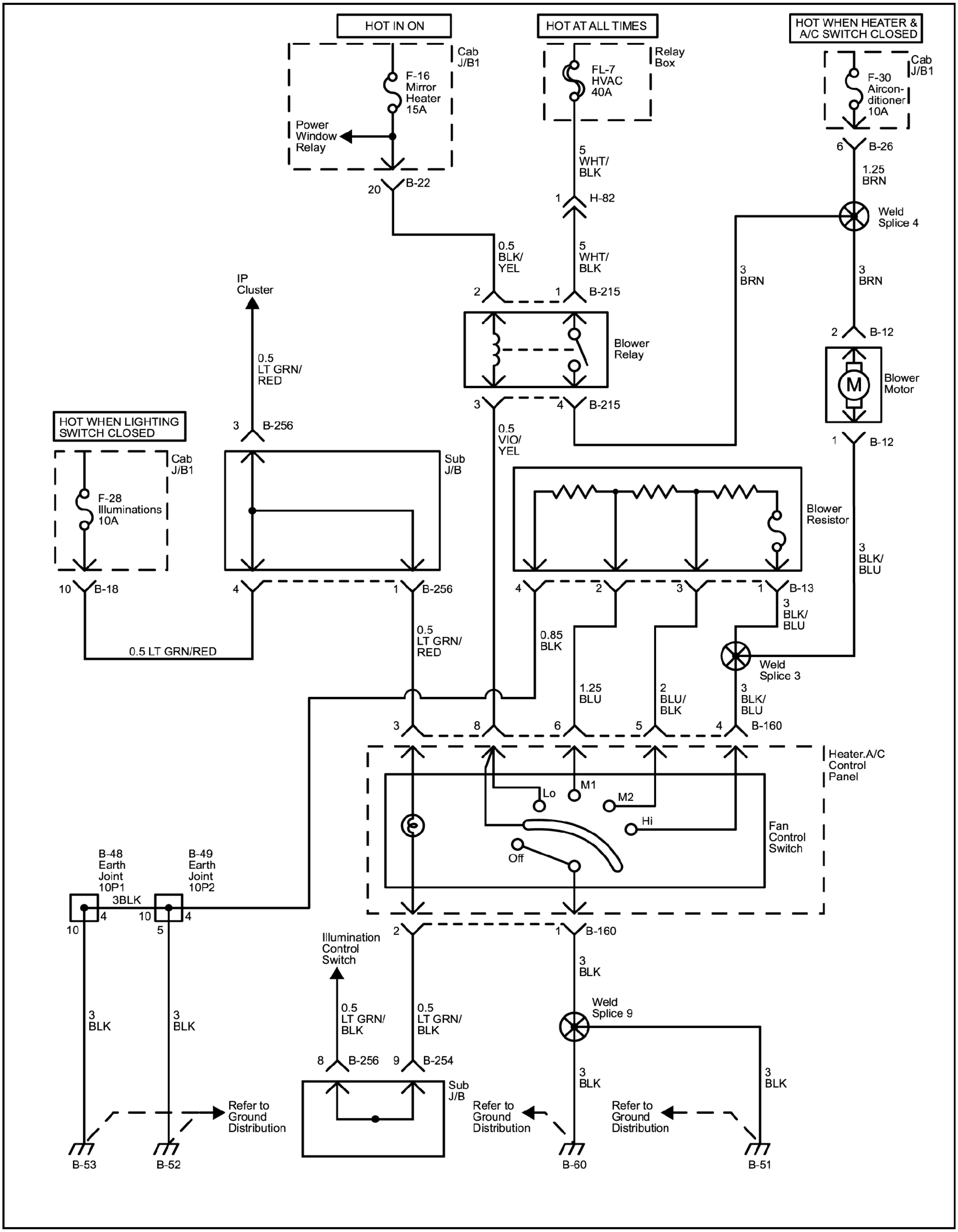
Legend

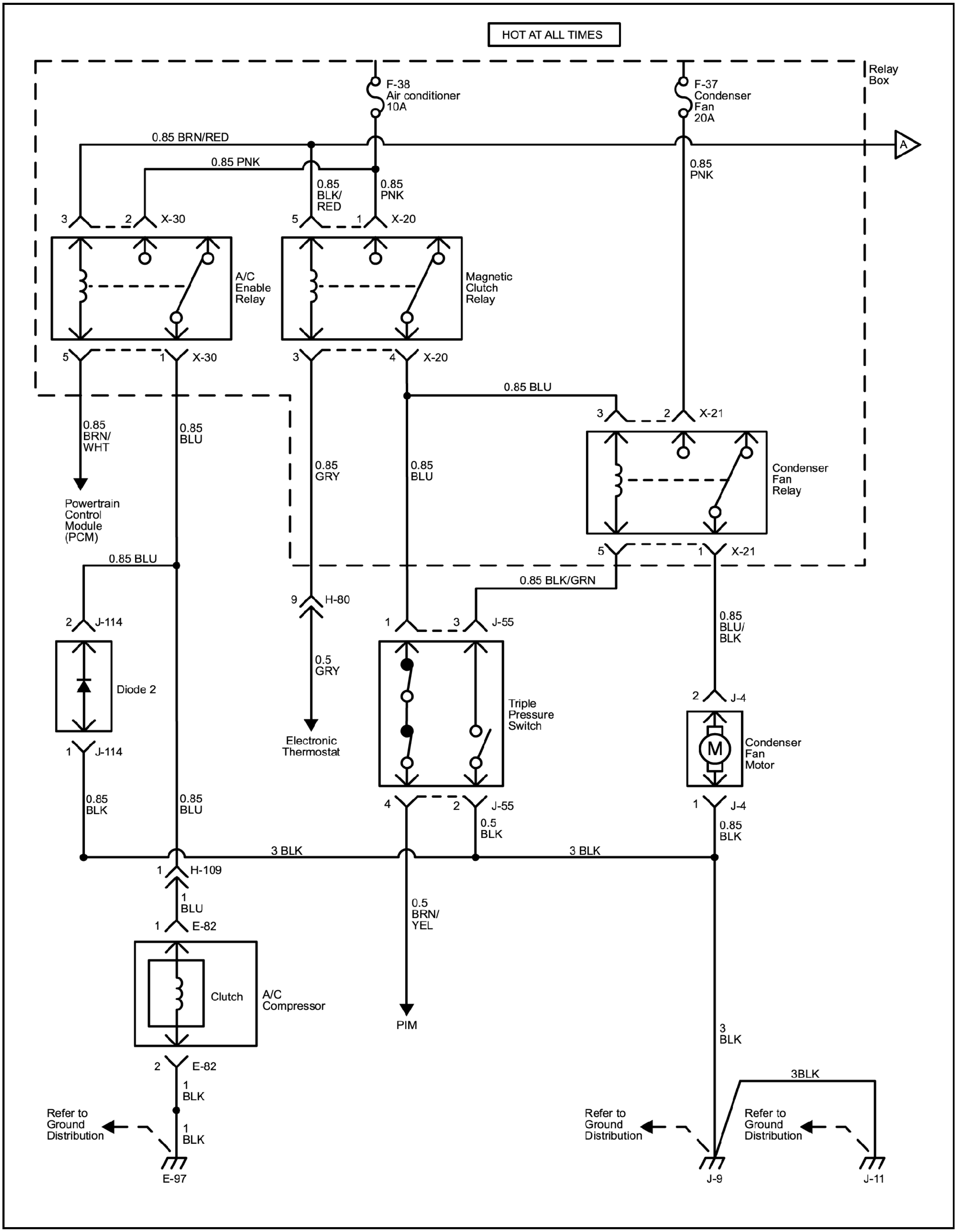
(1) Mode Door (FACE)
(2) Air Mix Door
(3) Evaporator Core (with A/C)
(4) Heater Core
(5) Mode Door (FOOT/DEF)

Air Conditioning

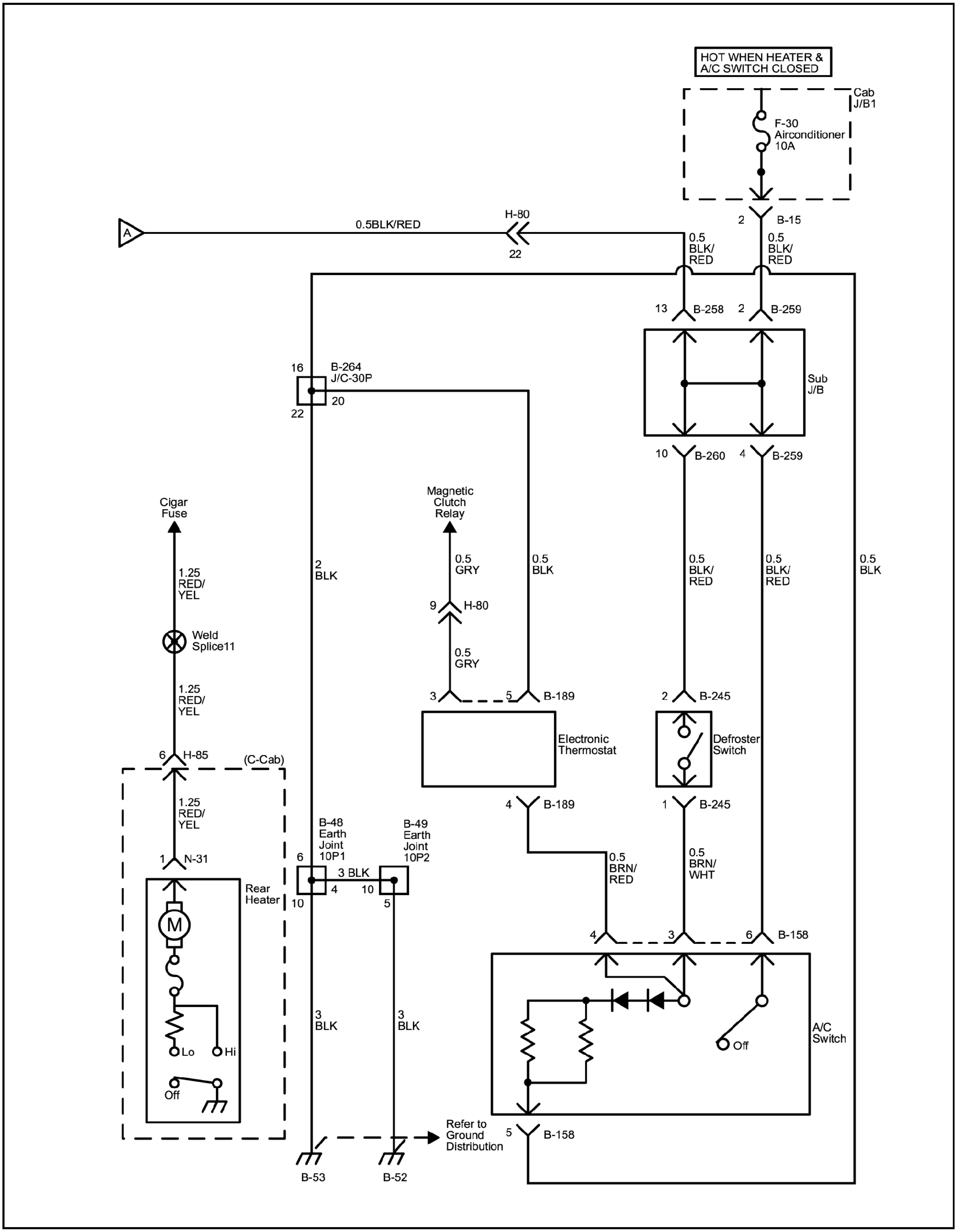
Schematic and Routing Diagrams

Air Conditioning System Schematic


HOT IN ON
Cab J/B1
F-16 Mirror Heater 15A
Power Window Relay
20 B-22
HOT AT ALL TIMES
Relay Box
FL-7 HVAC 40A
5 WHT/BLK
1 H-82
5 WHT/BLK
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Aircon-ditioner 10A
6 B-26
1.25 BRN
Weld Splice 4
3 BRN
3 BRN
2 B-12
Blower Motor
1 B-12
0.5 BLK/YEL
2 1 B-215
Blower Relay
3 4 B-215
0.5 VIO/YEL
IP Cluster
0.5 LT GRN/RED
3 B-256
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-28 Illuminations 10A
10 B-18
Sub J/B
4 1 B-256
0.5 LT GRN/RED
Blower Resistor
3 BLK/BLU
4 2 3 1 B-13
3 BLK/BLU
Weld Splice 3
0.85 BLK
1.25 BLU
2 BLU/BLK
3 BLK/BLU
0.5 LT GRN/RED
3 8 6 5 4 B-160
Heater.A/C Control Panel
M1
Lo
M2
Hi
Off
Fan Control Switch
B-48 Earth Joint 10P1
B-49 Earth Joint 10P2
3BLK
10 4 10 4
10 5
2 1 B-160
Illumination Control Switch
3 BLK
Weld Splice 9
3 BLK
3 BLK
0.5 LT GRN/BLK
0.5 LT GRN/BLK
8 B-256 9 B-254
Sub J/B
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
3 BLK
3 BLK
B-53
B-52
B-60
B-51
4554446


HOT AT ALL TIMES
Relay Box
F-38 Air conditioner 10A
F-37 Condenser Fan 20A
0.85 BRN/RED
0.85 PNK
A
0.85 BLK/ RED
0.85 PNK
0.85 PNK
3
2
X-30
5
1
X-20
A/C Enable Relay
Magnetic Clutch Relay
5
1
X-30
3
4
X-20
0.85 BLU
3
2
X-21
0.85 BRN/ WHT
0.85 BLU
0.85 GRY
0.85 BLU
Condenser Fan Relay
Powertrain Control Module (PCM)
0.85 BLU
5
1
X-21
0.85 BLK/GRN
9
H-80
2
J-114
1
3
J-55
0.85 BLU/ BLK
Diode 2
0.5 GRY
Triple Pressure Switch
2
J-4
Electronic Thermostat
Condenser Fan Motor
M
1
J-114
4
2
J-55
1
J-4
0.85 BLK
0.85 BLU
0.5 BLK
0.85 BLK
3 BLK
3 BLK
1
H-109
1 BLU
0.5 BRN/ YEL
1
E-82
Clutch
A/C Compressor
PIM
3 BLK
2
E-82
3BLK
1 BLK
Refer to Ground Distribution
1 BLK
Refer to Ground Distribution
Refer to Ground Distribution
E-97
J-9
J-11

4554448


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Airconditioner 10A
2
B-15
A
0.5BLK/RED
H-80
22
0.5 BLK/ RED
0.5 BLK/ RED
13
B-258
2
B-259
Sub J/B
10
B-260
4
B-259
16
B-264 J/C-30P
22
20
Magnetic Clutch Relay
Cigar Fuse
1.25 RED/ YEL
2 BLK
0.5 GRY
0.5 BLK
0.5 BLK/ RED
0.5 BLK/ RED
0.5 BLK
9
H-80
0.5 GRY
Weld Splice11
1.25 RED/ YEL
3
5
B-189
2
B-245
Electronic Thermostat
Defroster Switch
6
H-85
(C-Cab)
1.25 RED/ YEL
4
B-189
1
B-245
B-48 Earth Joint 10P1
B-49 Earth Joint 10P2
1
N-31
6
3 BLK
4
10
10
5
0.5 BRN/ RED
0.5 BRN/ WHT
Rear Heater
M
4
3
6
B-158
Lo
Hi
Off
3 BLK
3 BLK
A/C Switch
Off
Refer to Ground Distribution
5
B-158
B-53
B-52

4554460

Description and Operation

Air Conditioning System

The manual air conditioner of this vehicle is made up of components such as the compressor, evaporator, condenser, A/C switch and fan control switch.

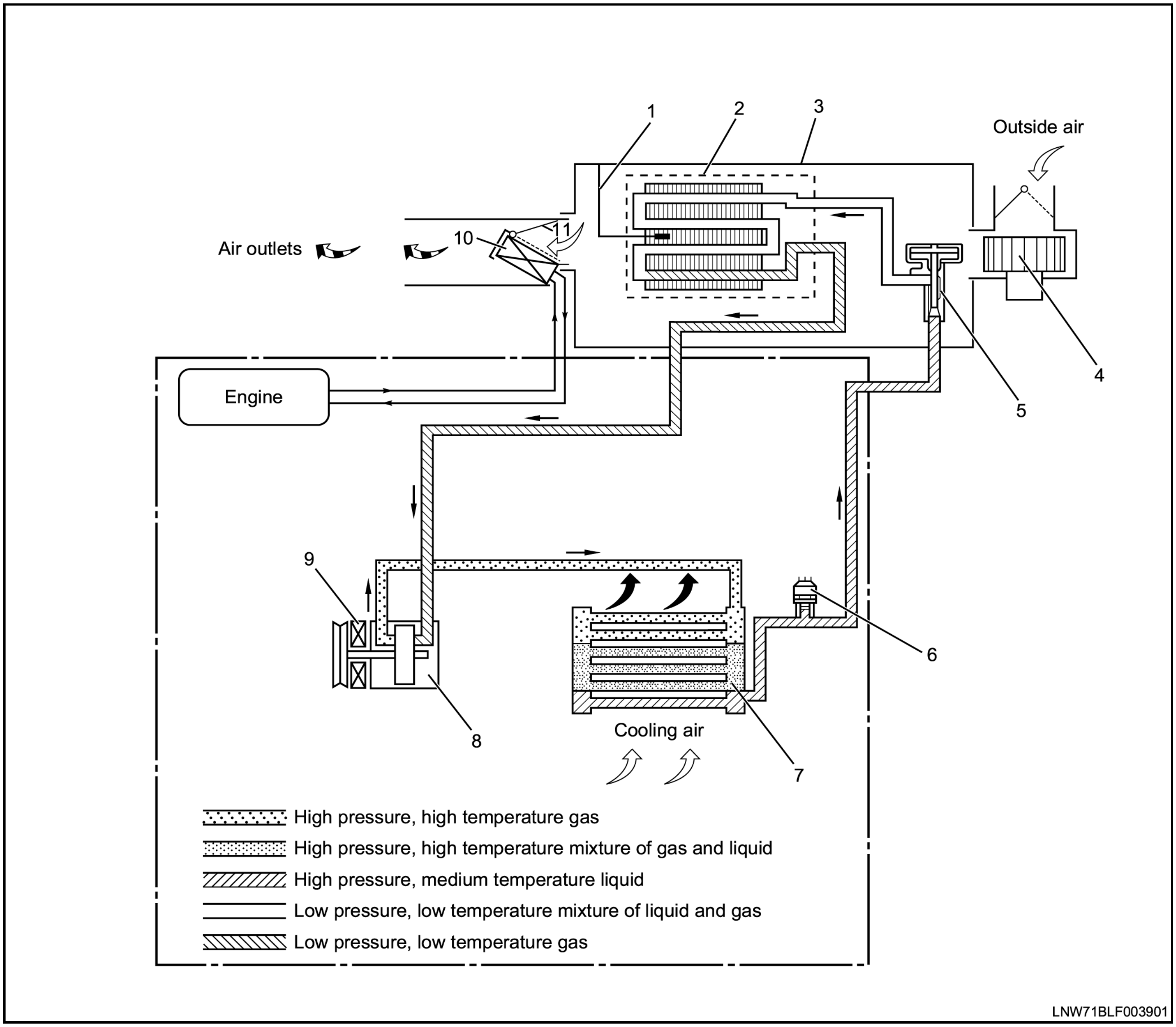
The air conditioner starts running upon the connection of the magnetic clutch when the engine is started and both the A/C and fan control switches are turned "ON". It stops running when either the fan control or A/C switch is turned OFF.

In addition to this switch, this vehicle also comes with features that may temporarily cut the air conditioner off via the system within the air conditioning cycle, such as the pressure switch that detects abnormal refrigerant pressure, the thermo switch to prevent freezing of the evaporator core and used for detecting the blow-off air temperature, and the thermo switch (to cut off air conditioner) that is installed in some vehicle models for detecting the engine water temperature.

When the air conditioner is running, the cycling switch end of the triple pressure switch detects the refrigerant pressure in the air conditioning cycle, and the condenser fan is activated to enhance heat dissipation of the condenser when the refrigerant pressure exceeds the preset pressure value.

Common items between the manual air conditioner and heater/ventilation are omitted in this section. Refer to the section on Heating and Ventilation for these items.

Air Conditioning Cycle Configuration and Features


1
2
3
Outside air
Air outlets
10
11
Engine
4
5
9
6
8
7
Cooling air
High pressure, high temperature gas
High pressure, high temperature mixture of gas and liquid
High pressure, medium temperature liquid
Low pressure, low temperature mixture of liquid and gas
Low pressure, low temperature gas
LNW71BLF003901

4445336

Legend

(1) Fin Sensor
(2) Evaporator Core
(3) Heater and Evaporator Unit
(4) Blower Motor
(5) Expansion Valve
(6) Pressure Switch
(7) Condenser (Receiver/Tank Unit)
(8) Compressor
(9) Magnetic Clutch
(10) Heater Core
(11) Air Mix Door

The air conditioning cycle possesses the four functions below, with the refrigerant circulating while changing repeatedly from liquid — gas — liquid.

Evaporation

The refrigerant changes from liquid into gas in the evaporator.

Refrigerant that enters the evaporator in the mist form evaporates immediately. The refrigerant evaporates by taking the heat from the surrounding air of the evaporator core's cooling fin. With the heat taken, the surrounding air that is cooled down is supplied by the blower fan into the vehicle to lower the temperature of the vehicle interior.

Liquid refrigerant supplied from the expansion valve and the evaporated refrigerant gas coexist in the evaporator, and the refrigerant changes from a liquid state into a gaseous state.

In order for the refrigerant to evaporate from a liquid into a vapor at a lower temperature, it is necessary to maintain a low pressure within the evaporator. To do so, the refrigerant gas is sucked into the compressor and discharged from the evaporator.

Compression

The compressor compresses the refrigerant into a state such that it liquefies easily at room temperature.

The refrigerant gas in the evaporator is sucked into the compressor. This function maintains the refrigerant in the evaporator at a low pressure, such that liquid refrigerant continues to evaporate even when in a low-temperature state of close to 0°C (32°F). The refrigerant that is sucked into the evaporator is being compressed in the cylinder. This raises the pressure to a state that enables the refrigerant to liquefy more easily by external air at room temperature.

Condensation

The refrigerant in the condenser is cooled down by external air, and changes from a vapor into a liquid. The high temperature and high pressure gas supplied from the compressor is cooled down and liquefied by the condenser and the external air, and the liquid is collected in the receiver dryer. The heat that is dissipated by the high temperature and high pressure refrigerant from the compressor into the outside air is known as condensing heat. This heat quantity is the sum of the heat taken by the refrigerant from the vehicle interior via the evaporator (evaporation heat) and the work performed during compression (converted to heat quantity).

Expansion

The expansion valve lowers the pressure to facilitate evaporation of the liquid refrigerant.

Before the liquefied refrigerant is supplied to the evaporator, its pressure is lowered to ease evaporation. This process is known as expansion. The expansion valve also controls the flow of the liquid refrigerant while lowering the pressure. In other words, the amount of liquid refrigerant that is evaporated in the evaporator is determined by the amount of heat taken at the specified evaporating temperature (evaporating pressure). As such, it is important to adjust the refrigerant to an appropriate quantity.

Compressor

A belt-driven, ten-cylinder swash plate type compressor (10S17) is used. Five double end pistons form the ten pumping chambers.

Refrigerant flow is controlled by reed valves and internal passages.

Front and rear cylinder heads hold the valves and plates to the main body and are secured by five through bolts.

The compressor is bolted to the right lower side of the engine.

The compressor is lubricated by compressor oil mixed with the refrigerant. An electrically actuated clutch and other controls determine compressor cycling. The rear head of the compressor is provided with pressure relief valve to prevent the malfunction of the compressor due to the abnormally high pressure of refrigerant.

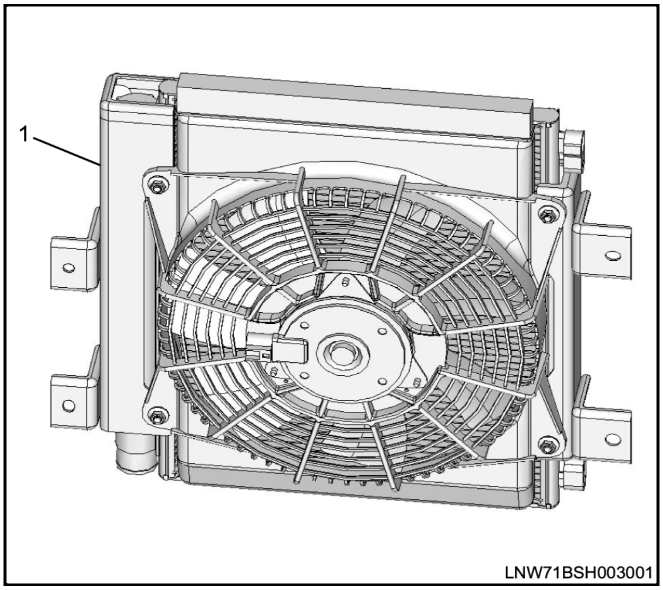
Magnetic Clutch

The compressor is driven by the drive belt of the crank pulley. However, when the compressor is driven during start of the engine, this imposes a significant load on the engine, which is undesirable. As such, the magnetic clutch drives the compressor when the air conditioner is "ON" by transmitting power from the engine to it. Power transmission from the engine to the compressor is cut off when the air conditioner is "OFF".

Condenser

The condenser forces the high temperature and high pressure refrigerant gas supplied from the compressor to cool down and liquefy via the condenser by outside air. Jamming of the condenser of blockage of air flow into the condenser's cooling fin may result in insufficient cooling capacity, increase the pressure of the refrigerant cycle and increase the load on the engine. When the condenser is functioning properly, the refrigerant discharge line of the condenser is usually colder than that of the intake line.

An electric fan is also installed to boost the cooling effect. This electric is switched "ON" or "OFF" via detection of the refrigerant pressure (by the triple pressure switch).



4445379

Legend

(1) Condenser ASM (Receiver/Tank Unit)

Receiver Dryer

The receiver dryer possesses the following functions.

- As the amount of refrigerant for circulation varies with the air conditioning cycle conditions, the air conditioning cycle stores an appropriate amount of refrigerant required for its smooth functioning according to changes in the circulation volume.
- Refrigerant gas in the form of gas bubbles are found inside the liquefied refrigerant from the condenser. The cooling capacity may deteriorate markedly if refrigerant containing gas bubbles is

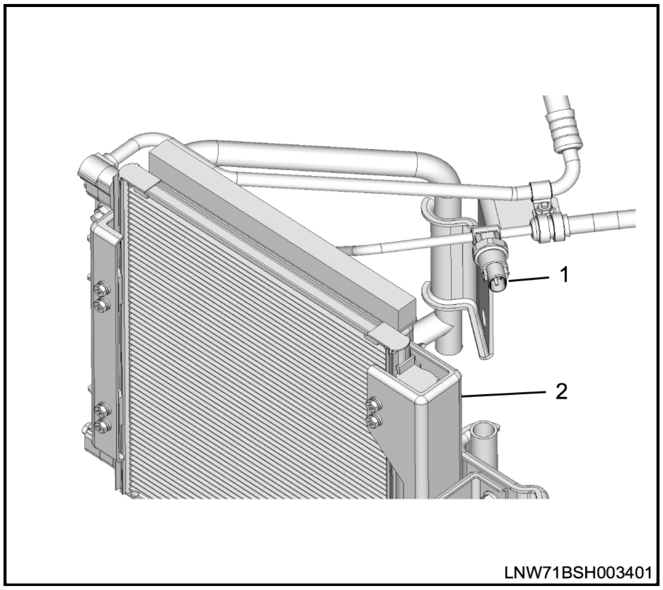
supplied to the expansion valve. As such, the liquid and gas bubbles are separated, and only the liquid is supplied to the expansion valve.

- Waste and water contained in the refrigerant in circulation are removed using the filter and dryer inside the receiver dryer.

Jamming of the receiver dryer may cause the air conditioner's performance to deteriorate. When jamming occurs at the inlet of the receiver dryer, the refrigerant pressure rises, while pressure lowers when jamming occurs at the outlet. In both cases, cooling can hardly take place. If the pipe at the outlet of the receiver dryer is unusually cold, this indicates that jamming has occurred.

Pressure Switch

The pressure switch (triple pressure switch) is installed on the high pressure pipe, and is used to detect unusually high refrigerant pressure (high pressure switch) and prevent compressor seizing (low pressure switch) due to refrigerant leakage by turning the magnetic clutch to "ON" or "OFF" at the preset pressure. A cycling switch is also available, which is used for the "ON" and "OFF" control (intermediate pressure switch) of the condenser fan.



4445442

Legend

(1) Pressure Switch
(2) Condenser

- Low pressure control (low pressure switch)
  Compressor
  – "ON" : 225 ± 30 kPa (32 ± 4 psi)
  – "OFF" : 196 ± 20 kPa (28 ± 3 psi)
- Intermediate pressure control (intermediate pressure switch)
  Condenser fan
  – "ON" : 1520 ± 98 kPa (220 ± 14 psi)
  – "OFF" : 1230 ± 98 kPa (178 ± 14 psi)
- High pressure control (high pressure switch)
  Compressor
  – "ON" : reduce pressure by 590 ± 196 kPa (85 ± 28 psi) with respect to the OFF value
  – "OFF" : 3140 ± 196 kPa (455 ± 28 psi)

Evaporator

The evaporator changes the liquid refrigerant that is supplied from the expansion valve in mist form into a gas via heat exchange with the air that is supplied from the blower motor.

Vaporization heat that is generated when the liquid refrigerant evaporates into vapor cools down the evaporator and evaporator core fin, which in turn cools down the air that is supplied from the blower motor.

Moisture in the air is cooled and forms water droplets, and the vehicle is dehumidified by removing these droplets from the vehicle.

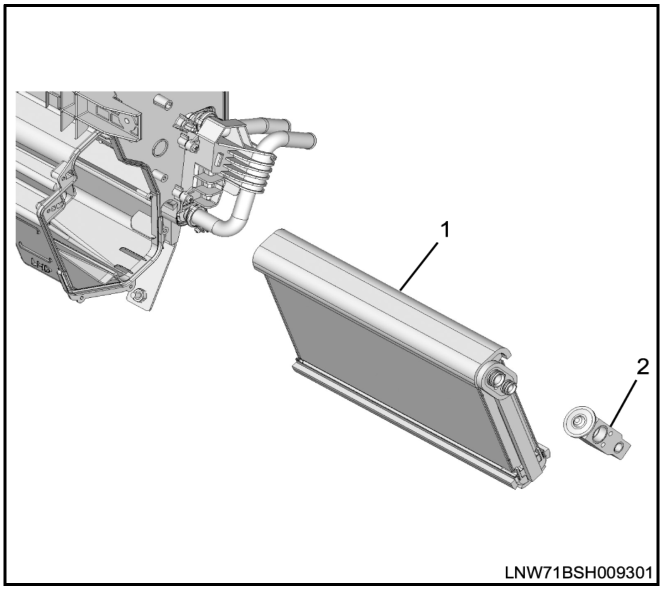
Expansion Valve

The expansion valve is installed to the inlet of the evaporator via a uniform external pressure.

The high pressure liquid refrigerant supplied from the receiver dryer undergoes a squeezing action when it passes through the expansion valve, which changes it into a low pressure liquid refrigerant in mist form before it is supplied to the evaporator core.

This expansion valve is made up of a thermo sensor (Temperature-sensitive rod), diaphragm, ball valve, and spring adjustment screw etc. The thermo sensor (Temperature-sensitive rod) controls the flow of coolant by operating the diaphragm through the evaporator outlet’s temperature change.

The expansion valve can also be used to adjust refrigerant flow as it ensures efficient capacity utilization of the various devices in the air conditioning cycle. As such, abnormality of the expansion valve will cause both the outlet pressure and inlet pressure values to drop, thus resulting in an insufficient cooling capacity of the evaporator.



4445452

Legend

(1) Evaporator Core

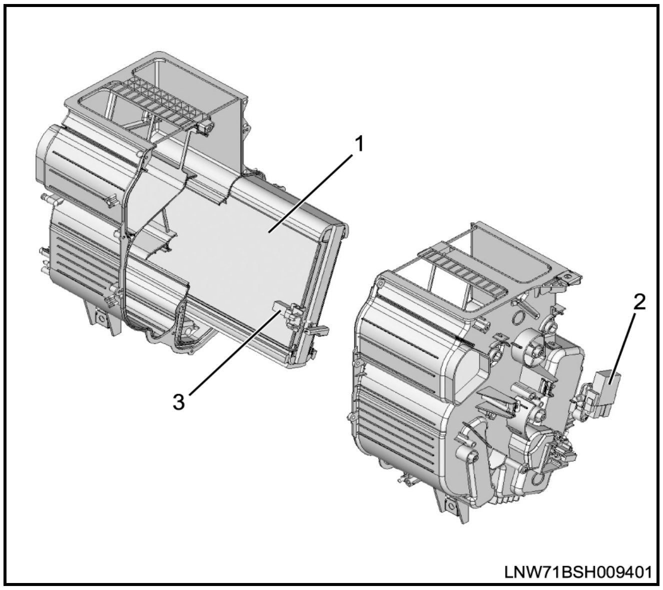
(2) Expansion Valve

Thermo Switch

The thermo switch employs an amplifier (electronic thermostat) and a thermistor (fin sensor) to reduce the operating noise level.

The fin sensor is installed to the outlet of the evaporator core, and is used to detect the temperature of the air that passes through the evaporator core.

The OFF value is 1.8°C (35.2°F), and the ON value is 2.8°C (37.0°F) with respect to the OFF value.



4445465

Legend

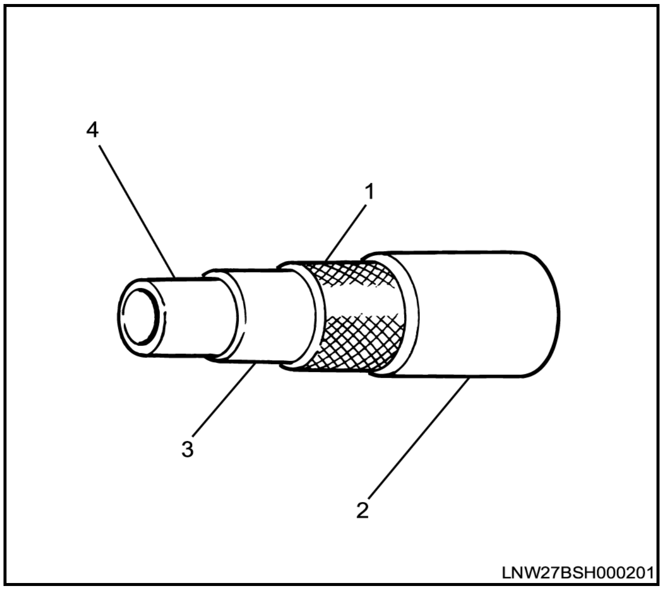
(1) Evaporator Core
(2) Electronic Thermostat
(3) Fin Sensor

Refrigerant Pipe

The following phenomena are observed when jamming occurs in the refrigerant pipe.

1. Low pressure hose: when jamming occurs in the low pressure hose, the compressor's inlet pressure as well as outlet pressure drop, and cooling capacity is lost.
2. High pressure hose: When jamming occurs in the high pressure hose, leakage from the discharge line will usually occur.
3. High pressure pipe: when jamming occurs in the high pressure pipe, pressure at both the outlet and inlet ends will drop, resulting in insufficient cooling.

   The high pressure and low pressure flexible hoses employ a low leakage hose that is equipped with nylon at the innermost end of the hose.



4445491

Legend

(1) Polyester (Reinforcement Layer)
(2) Exterior Rubber Layer
(3) Interior Rubber Layer
(4) Nylon (Resin Layer)

BLANK

Section 3

Engine/Propulsion

Engine Electrical 3-3
  Specifications 3-3
    Cranking System General Information 3-3
    Charging System General Information 3-4
  Description and Operation 3-4
    Charging System Description 3-4
    Starting System Description 3-6
    Battery Description and Operation 3-7
    Charging System Description and Operation 3-8
    Starting System Description and Operation 3-9

BLANK

Engine Electrical

Specifications

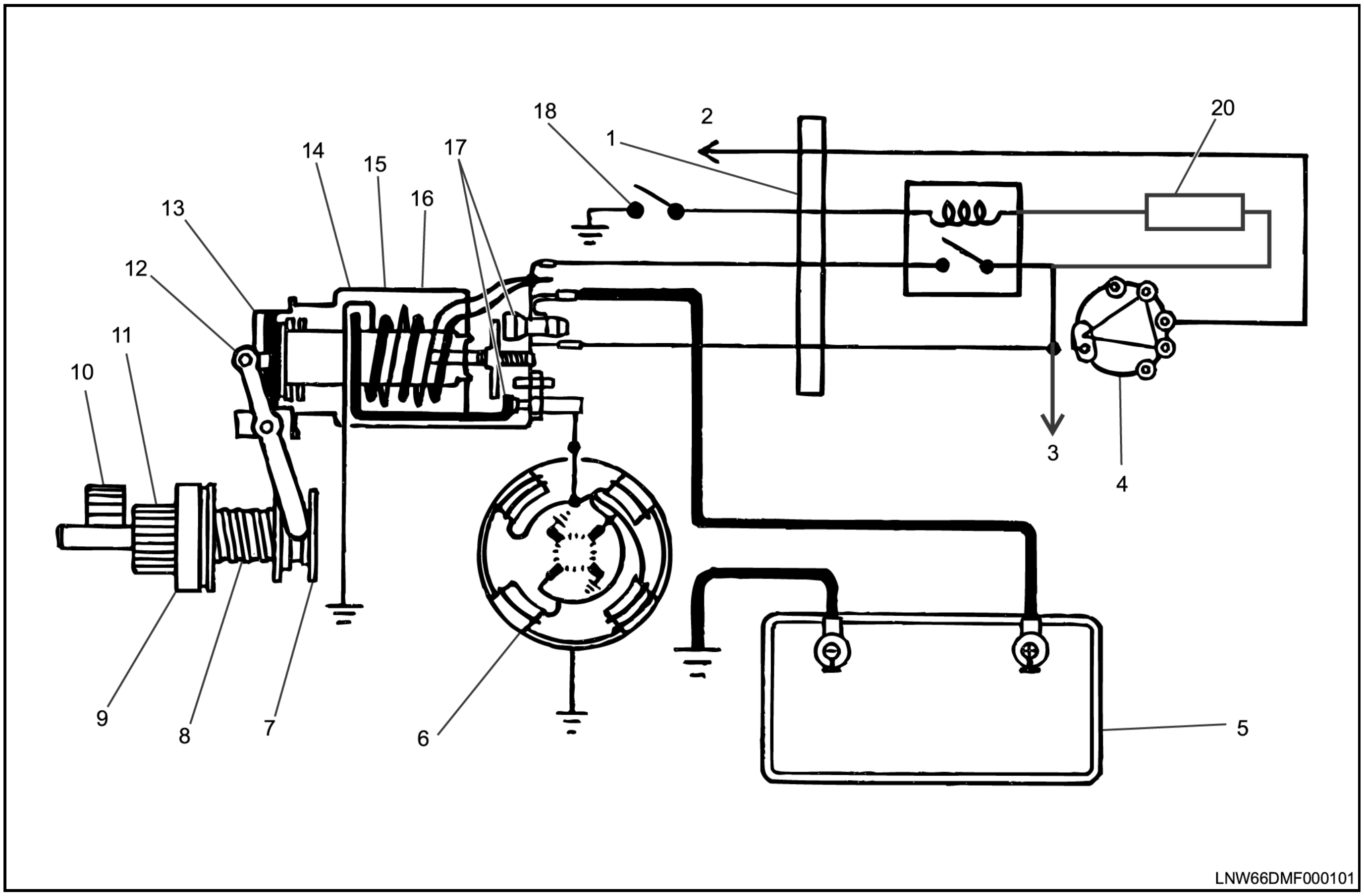
Cranking System General Information

Service Precaution

Caution: When fasteners are removed, always reinstall them at the same location from which they were removed. If a fastener needs to be replaced, use the correct part number fastener for that application. If the correct part number fastener is not available, a fastener of equal size and strength (or stronger) may be used. Fasteners that are not reused, and those requiring thread locking compound, will be called out. The correct torque values must be used when installing fasteners that require it. If the above conditions are not followed, parts or system damage could result.

General Description — Cranking Circuit

The basic cranking circuit consists of the battery, starter motor, ignition (engine control) switch, inhibitor switch and related electrical wiring.



LNW66DMF000101

4942186

Legend

(1)	Bulkhead Connector
(2)	To Distributor "BAT" Terminal
(3)	BAT
(4)	Ignition Switch
(5)	Battery
(6)	Starter Motor
(7)	Shift Collar
(8)	Pinion Compression Spring
(9)	Clutch
(10)	Flywheel

(11)	Pinion	(16)	Solenoid
(12)	Shift Lever	(17)	Solenoid
(13)	Plunger	(18)	Inhibitor Switch
(14)	Hold in Coil	(19)	Starter Relay
(15)	Pull in Coil	(20)	PCM

Charging System General Information

Service Precaution

Caution: When fasteners are removed, always reinstall them at the same location from which they were removed. If a fastener needs to be replaced, use the correct part number fastener for that application. If the correct part number fastener is not available, a fastener of equal size and strength (or stronger) may be used. Fasteners that are not reused, and those requiring thread locking compound, will be called out. The correct torque values must be used when installing fasteners that require it. If the above conditions are not followed, parts or system damage could result.

General Description

The charging system is an IC integral regulator charging system and its main components are connected as shown in figure. The regulator is a solid state type and it is mounted along with the brush holder assembly inside the generator installed on the rear end cover. The generator does not require particular mamtenance such as voltage adjustment. The rectifier connected to the stator coil has nine diodes to transform A.C. voltage into D.C, voltage. This D.C. voltage is connected to the output terminal of generator.

Description and Operation

Charging System Description

General Procedure

Caution: When fasteners are removed, always reinstall them at the same location from which they were removed. If a fastener needs to be replaced, use the correct part number fastener for that application. If the correct part number fastener is not available, a fastener of equal size and strength (or stronger) may be used. Fasteners that are not reused, and those requiring thread locking compound, will be called out. The correct torque values must be used when installing fasteners that require it. If the above conditions are not followed, parts or system damage could result.

Battery Reference

Description

Refer to Battery Description.

Diagnosis of Battery

Refer to Battery Diagnosis.

On-Vehicle Service: Battery

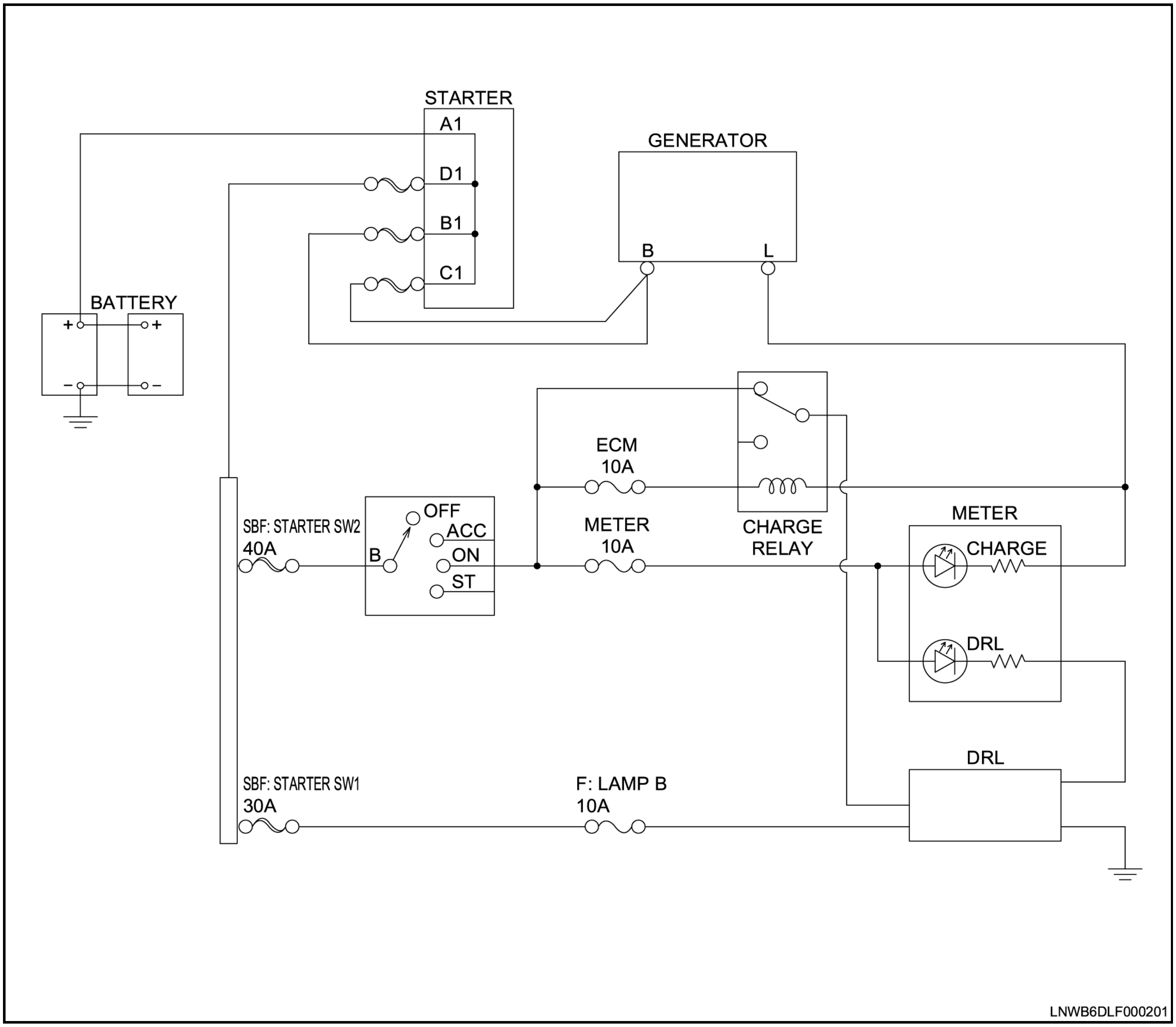
Refer to Battery Charging.

Charging System

General Description

The main charging system components are the batteries, the generator and the battery discharge indicator lamp circuit. The generator is a 140-amp, self-discharge rectifying type with a built-in regulator. The battery indicator lamp is mounted in the instrument panel. For more details on this circuit refer to Instrument Panel (IP) Cluster.

Circuit Diagram


STARTER
A1
D1
B1
C1
GENERATOR
B
L
BATTERY
ECM
10A
CHARGE
RELAY
METER
10A
SBF: STARTER SW2
40A
B
OFF
ACC
ON
ST
METER
CHARGE
DRL
DRL
SBF: STARTER SW1
30A
F: LAMP B
10A
LNWB6DLF000201

4498868

Maintenance

The most common indication of charging system troubles is an undercharged or overcharged battery.

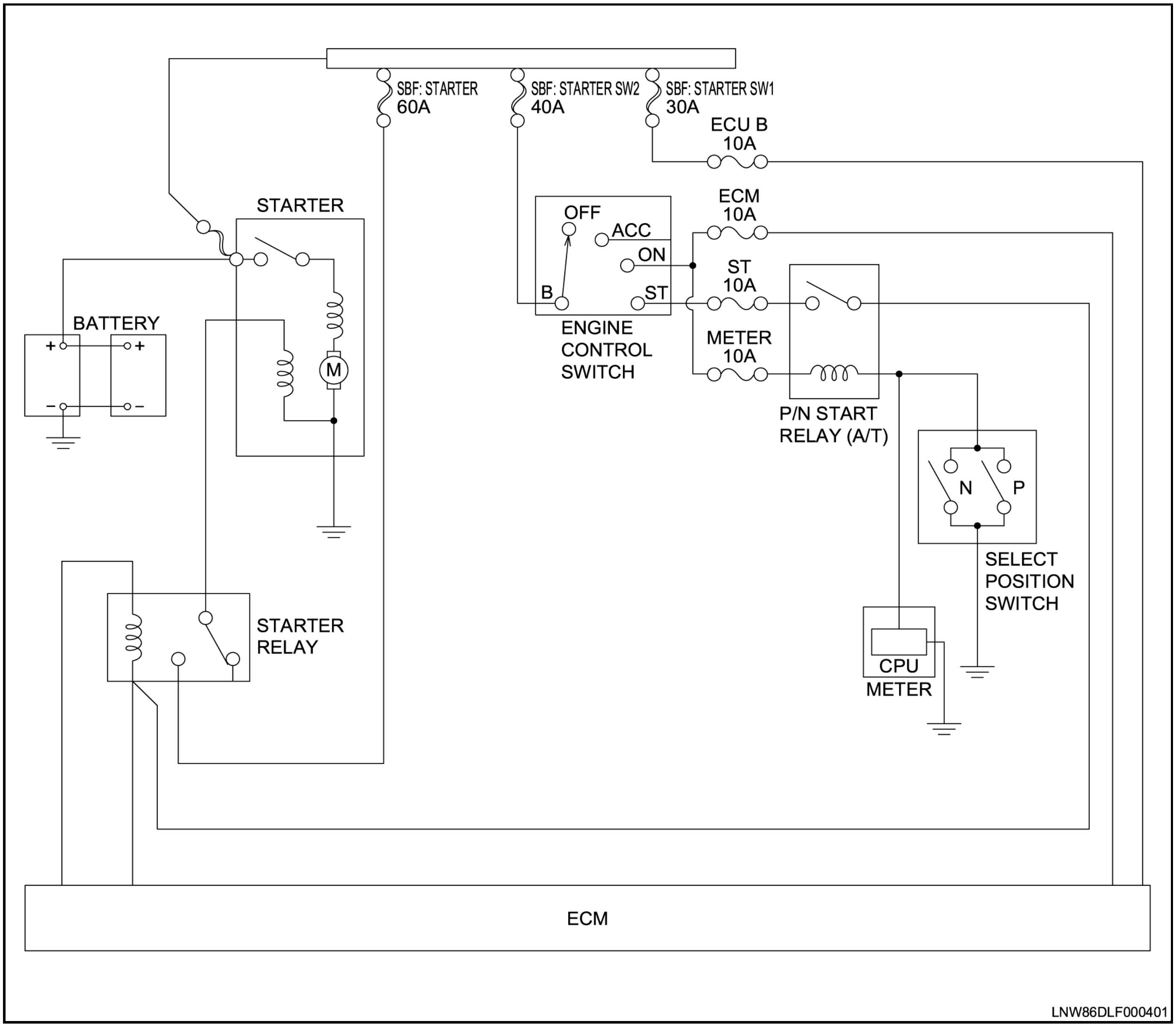
Since the battery itself may be defective, the first step should be to check its condition. Refer to Battery Diagnosis. In the case of an undercharged battery, check for battery drain caused by grounds or by accessories left turned on.

Keep the generator and all other electrical system terminals clean and tight. A loose or badly corroded terminal connection will create excessive resistance in the system and result in hard starting, dim lights etc.

Inspect the generator system at regular intervals and correct any potential causes of trouble before vehicle performance is affected.

Starting System Description

Circuit Diagram


SBF: STARTER
60A
SBF: STARTER SW2
40A
SBF: STARTER SW1
30A
ECU B
10A
STARTER
ECM
10A
OFF
ACC
ON
B
ST
ST
10A
BATTERY
M
ENGINE
CONTROL
SWITCH
METER
10A
P/N START
RELAY (A/T)
N
P
SELECT
POSITION
SWITCH
STARTER
RELAY
CPU
METER
ECM
LNW86DLF000401

4498904

Starter Relay

The starter is a 3 kilowatt, reduction drive model.

The gear housing and armature end bearing housings are aluminum. The brush assembly has replaceable brushes. The commutator bars are mica insulated and are undercut.

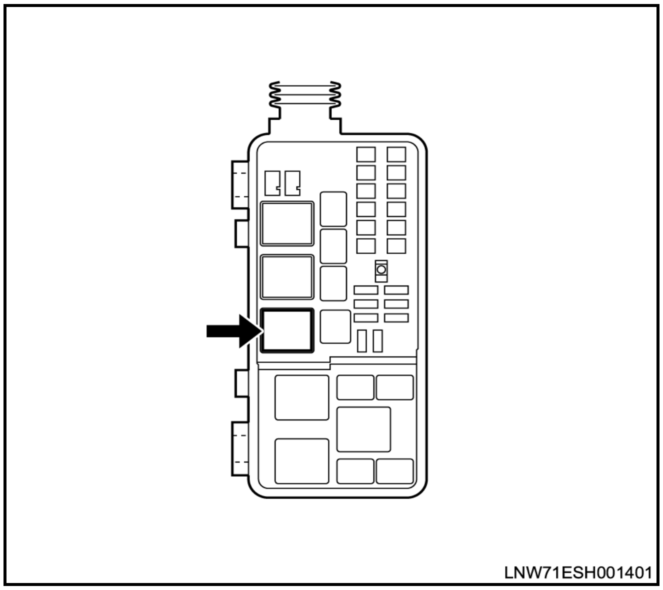
The starter circuit starts at the batteries. The battery cable goes to the large terminal on the starter.

From that terminal wires lead to the engine control switch and the starter relay.

From the engine control switch the starter circuit goes through fuses and the transmission neutral switch to the starter relay. When the engine control switch is turned to start and the transmission neutral switch is closed, the starter relay closes to complete the circuit from the batteries to the starter solenoid. The starter circuit is also connected to the Engine Control Module (ECM).

The ECM operates when the engine control switch is turned to the “ON” position.

The starter relay is located on the frame at the left rear side of the cab.



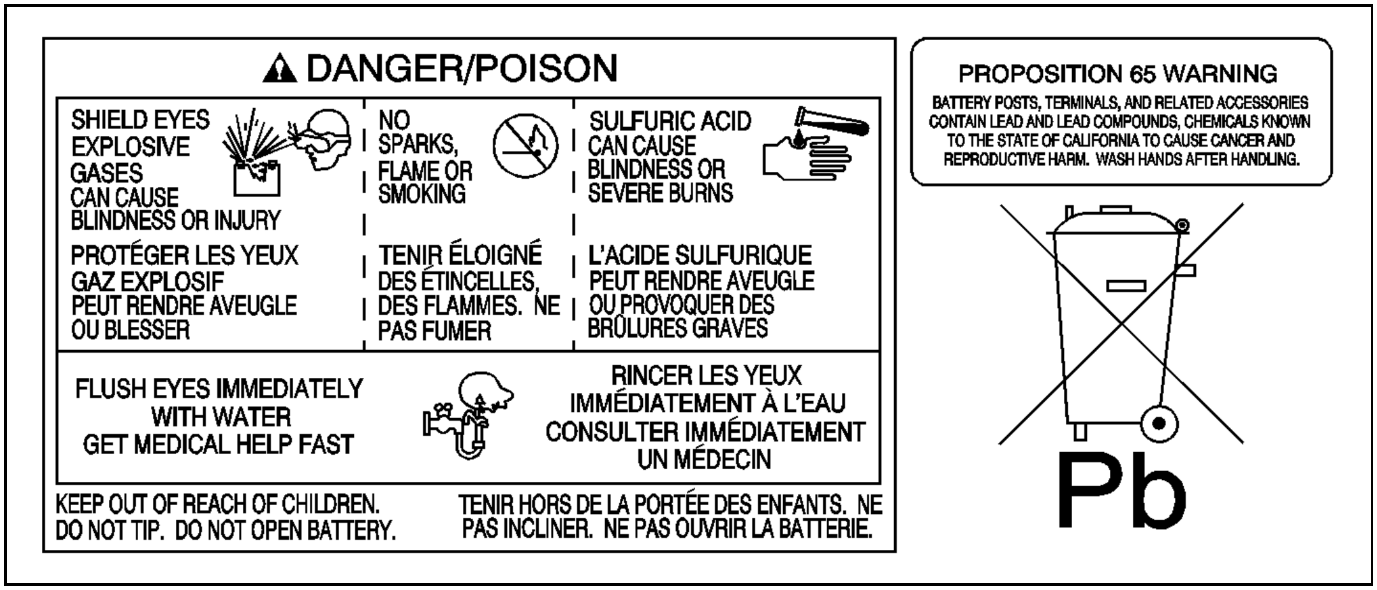
4498906

Maintenance

Keep the starter's exterior clean. Remove corrosion from the terminals, leads, and connectors.

Tighten the starter to engine mounting bolts and the electrical cable retaining nuts.

Battery Description and Operation



⚠ DANGER/POISON

SHIELD EYES EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY

PROTÉGER LES YEUX GAZ EXPLOSIF PEUT RENDRE AVEUGLE OU BLESSER

NO SPARKS, FLAME OR SMOKING

TENIR ÉLOIGNÉ DES ÉTINCELLES, DES FLAMMES. NE PAS FUMER

SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS

L'ACIDE SULFURIQUE PEUT RENDRE AVEUGLE OU PROVOQUER DES BRÛLURES GRAVES

FLUSH EYES IMMEDIATELY WITH WATER GET MEDICAL HELP FAST

RINCER LES YEUX IMMÉDIATEMENT À L'EAU CONSULTER IMMÉDIATEMENT UN MÉDECIN

KEEP OUT OF REACH OF CHILDREN. DO NOT TIP. DO NOT OPEN BATTERY.

TENIR HORS DE LA PORTÉE DES ENFANTS. NE PAS INCLINER. NE PAS OUVRIR LA BATTERIE.

PROPOSITION 65 WARNING

BATTERY POSTS, TERMINALS, AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM. WASH HANDS AFTER HANDLING.

754326

Warning: Batteries produce explosive gases. Batteries contain corrosive acid. Batteries supply levels of electrical current high enough to cause burns. Therefore, in order to reduce the risk of personal injury while working near a battery, observe the following guidelines:

- ***Always shield your eyes.***
- ***Avoid leaning over the battery whenever possible.***
- ***Do not expose the battery to open flames or sparks.***
- ***Do not allow battery acid to contact the eyes or the skin.***
  - ***Flush any contacted areas with water immediately and thoroughly.***
  - ***Get medical help.***

Follow each step of the jump starting procedure in order.

Treat both the booster and the discharged batteries carefully when using the jumper cables.

The maintenance free battery is standard. There are no vent plugs in the cover. The battery is completely sealed except for 2 small vent holes in the side. These vent holes allow the small amount of gas that is produced in the battery to escape.

The battery has 3 functions as a major source of energy:

- Engine cranking
- Voltage stabilizer
- Alternate source of energy with generator overload

The battery specification label, example below, contains information about the following:

- The test ratings
- The original equipment catalog number
- The recommended replacement model number

Battery Description and Operation

CCA 750	LOAD TEST 375
REPLACEMENT MODEL Freedom	

Battery Ratings

A battery has 2 ratings:

- Reserve capacity or Amp hours
- Cold cranking amperage

When a battery is replaced use a battery with similar ratings. Refer to the battery specification label on the original battery or refer to Battery Usage.

Amp Hours

The amp hour rating tells you how much amperage is available when discharged evenly over a 20 hour period. The amp hour rating is cumulative, so in order to know how many constant amps the battery will output for 20 hours, you have to divide the amp hour rating by 20. Example: If a battery has an amp hour rating of 74, dividing by 20 = 3.75. Such a battery can carry a 3.75 A load for 20 hours before dropping to 10.5 V. (10.5 V is the fully discharged level, at which point the battery needs to be recharged.) A battery with an amp hour rating of 55 will carry a 2.75 A load for 20 hours before dropping to 10.5 V.

Reserve Capacity

Reserve capacity is the amount of time in minutes it takes a fully charged battery, being discharged at a constant rate of 25 amperes and a constant temperature of 27°C (80°F) to reach a terminal voltage of 10.5 volts. Refer to Battery Usage for the reserve capacity rating of the original equipment battery.

Cold Cranking Amperage

The cold cranking amperage is an indication of the ability of the battery to crank the engine at cold temperatures. The cold cranking amperage rating is the minimum amperage the battery must maintain for 30 seconds at –18°C (0°F) while maintaining at least 7.2 volts. Refer to Battery Usage for the cold cranking amperage rating for this vehicle.

Charging System Description and Operation

Generator

The DR–44 generator is non-repairable. They are electrically similar to earlier models. The generator(s) feature the following major components:

- The delta stator
- The rectifier bridge
- The rotor with slip rings and brushes
- A conventional pulley
- Dual internal fans
- A voltage regulator

The fan cool the slip ring and the frame.

The D stands for air–cooled Dual internal fan; the 44 denotes the outside diameter of the stator laminations in millimeters, over 100 millimeters. The generator is rated at 145 amperes.

The generator features permanently lubricated bearings. Service should only include the tightening of mounting components. Otherwise, the generator is replaced as a complete unit.

Regulator

The voltage regulator controls the field current of the rotor in order to limit system voltage. The regulator switches the current on and off at a rate of 400 cycles per second in order to perform the following functions:

- Radio noise control
- Obtain the correct average current needed for proper system voltage control

At high speeds, the on-time may be 10 percent with the off-time at 90 percent. At low speeds, the on-time may be 90 percent and the off-time 10 percent.

Battery Charging System Indicators

The IPC illuminates the battery indicator when the following occurs:

- The PIM detects that the generator output is less than 11 volts or greater than 16 volts. The IPC receives a ground signal from the charge relay to turn on the charge indicator.
- The ignition is on, with the engine off.

Starting System Description and Operation

The PG-260L is a non-repairable starter motor. It has pole pieces that are arranged around the armature within the starter housing. When the solenoid windings are energized, the pull-in winding circuit is completed to ground through the starter motor. The hold-in winding circuit is completed to ground through the solenoid. The windings work together magnetically to pull in and hold in the plunger. The plunger moves the shift lever. This action causes the starter drive assembly to rotate on the armature shaft spline as it engages with the flywheel ring gear on the engine. At the same time, the plunger closes the solenoid switch contacts in the starter solenoid. Full battery voltage is then applied directly to the starter motor and it cranks the engine.

As soon as the solenoid switch contacts close, current stops flowing thorough the pull-in winding as battery voltage is now applied to both ends of the windings. The hold-in winding remains energized; its magnetic field is strong enough to hold the plunger, shift lever, starter drive assembly, and solenoid switch contacts in place to continue cranking the engine. When the engine starts, the pinion gear overrun sprag protects the armature from excessive speed until the switch is opened.

When the ignition switch is placed in the Start position, a discrete 12-volt signal is supplies to the powertrain interface module (PIM) notifying it that the ignition is in the Start position. The PIM then sends a message to the engine control module (ECM) via the GMLAN data communication circuits notifying it that CRANK has been requested. The ECM verifies proper security message from the PIM and verifies that the transmission is in Park or Neutral. If it is, the ECM then supplies a ground signal to the control circuit of the start relay. When this occurs, battery positive voltage is supplies through the switch side of the start relay to the S terminal of the starter solenoid.

When the ignition switch is released from the CRANK position, voltage is removed from the starter solenoid S terminal. Current flows from the motor contacts through both windings to ground at the end of the hold–in winding. However, the direction of the current flow through the pull–in winding is now in the opposite direction of the current flow when the winding was first energized.

The magnetic fields of the pull-in and hold-in windings now oppose one another. This action of the windings, along with the help of the return spring, cause the starter drive assembly to disengage and the solenoid switch contacts to open simultaneously. As soon as the contacts open, the starter motor is turned off.

BLANK

Section 4

Transmission

Automatic Transmission - 6L90 4-3
Description and Operation 4-3
Shift Lock System Description and Operation 4-3

BLANK

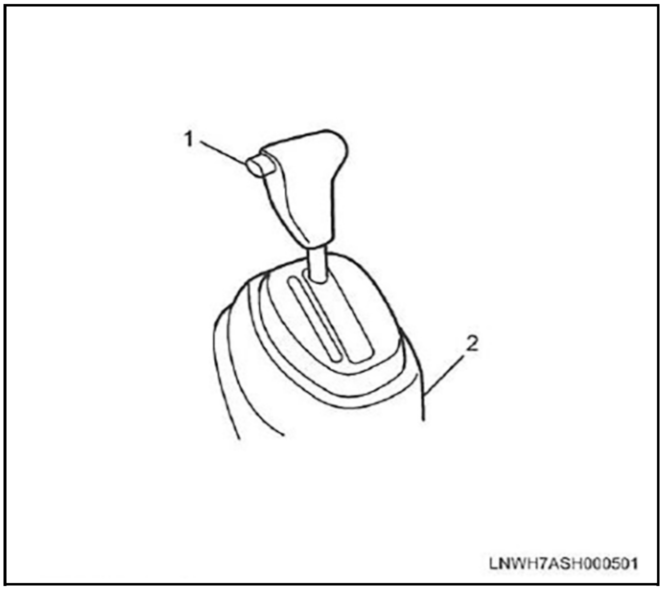
Automatic Transmission - 6L90

Description and Operation

Shift Lock System Description and Operation

Shifting from the P position to the R position of the shift lever is possible if the shift lever position is P, the key position is ON, and the stoplight switch is ON. For the operating patterns other than the above, operating from the P position to the R position is not possible because of the shift lock. Shift lock is performed by locking the shift lever button (1).

Note: The shift lock solenoid (2) becomes not energized when the shift lever button is fully pressed



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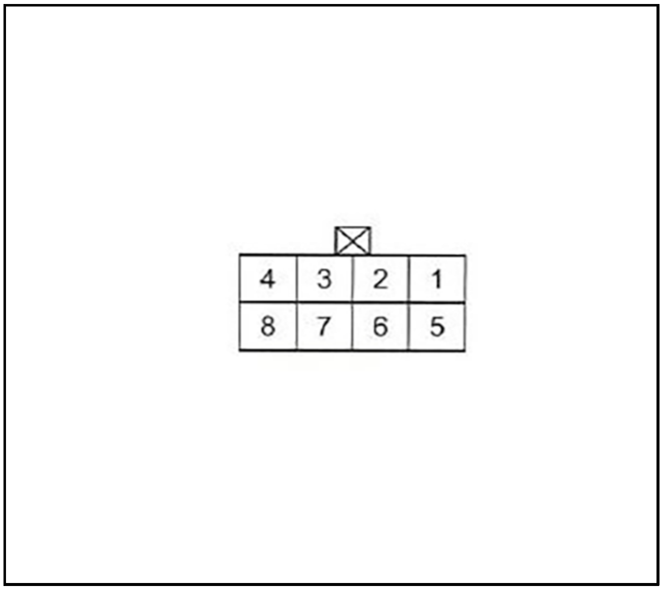
Shift Lock Operating Condition	Conditions		
	Key Position	Lever Position	Stoplight Switch (Brake Pedal Operation)
Not possible for operating from P position to R position (Shift lock solenoid not energized)	LOCK	P position	OFF ON
	ACC		OFF ON
	ON		OFF
Possible for operating from P position to R position (Shift lock solenoid energized)	ON		ON

Shift Lock Solenoid Connector Terminals



4944581

Terminal Number	Connection
1	—
2	STP
3	ON
4	ACC
5	—
6	KLS+
7	—
8	GND

Shift Lock Release Mechanism

When the shift lock is activated, a mechanism that can release the shift lock mechanically is set. Refer to Shift Lock System.

BLANK

Section 5

Cab and Chassis Electrical

Cab and Chassis Electrical 5-3

Schematic and Routing Diagrams 5-3

Controller Area Network (CAN) Schematics 5-4
Data Link Connector Schematics 5-5
Engine Controls Schematics 5-7
Ground Distribution Schematics 5-12
Heated Mirror Schematics 5-20
Power Distribution Schematics (Chassis) 5-21
Power Distribution Schematics (Cab) 5-25
Sub Junction Block Schematics 5-34
10P Joint Connector Schematics 5-43
Harness Routing Views 5-51
Instrument Cluster Schematics 5-68
Radio and Cigarette Lighter Schematics 5-75
Horn Schematics 5-77
Wiper/Washer Schematics 5-78
Interior Lights Schematics 5-80
Exterior Lights Schematics 5-82
Backup Alarm System Schematics 5-92
Keyless Entry Schematics 5-93
Transmission Control Module Schematics 5-96
HVAC Schematics 5-100
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Power Window Schematics 5-106
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Component Locator 5-110

Diode Location 5-110
Fuse, Fusible Link, and Slow-Blow Fuse Location 5-111
Joint Connection and Weld Splice Location . . . 5-113
Parts Location 5-124
Relay Location 5-128
Ground Views 5-130

Visual Identification 5-132

Inline Harness Connector End Views 5-132

Diagnostic Information and Procedures 5-156

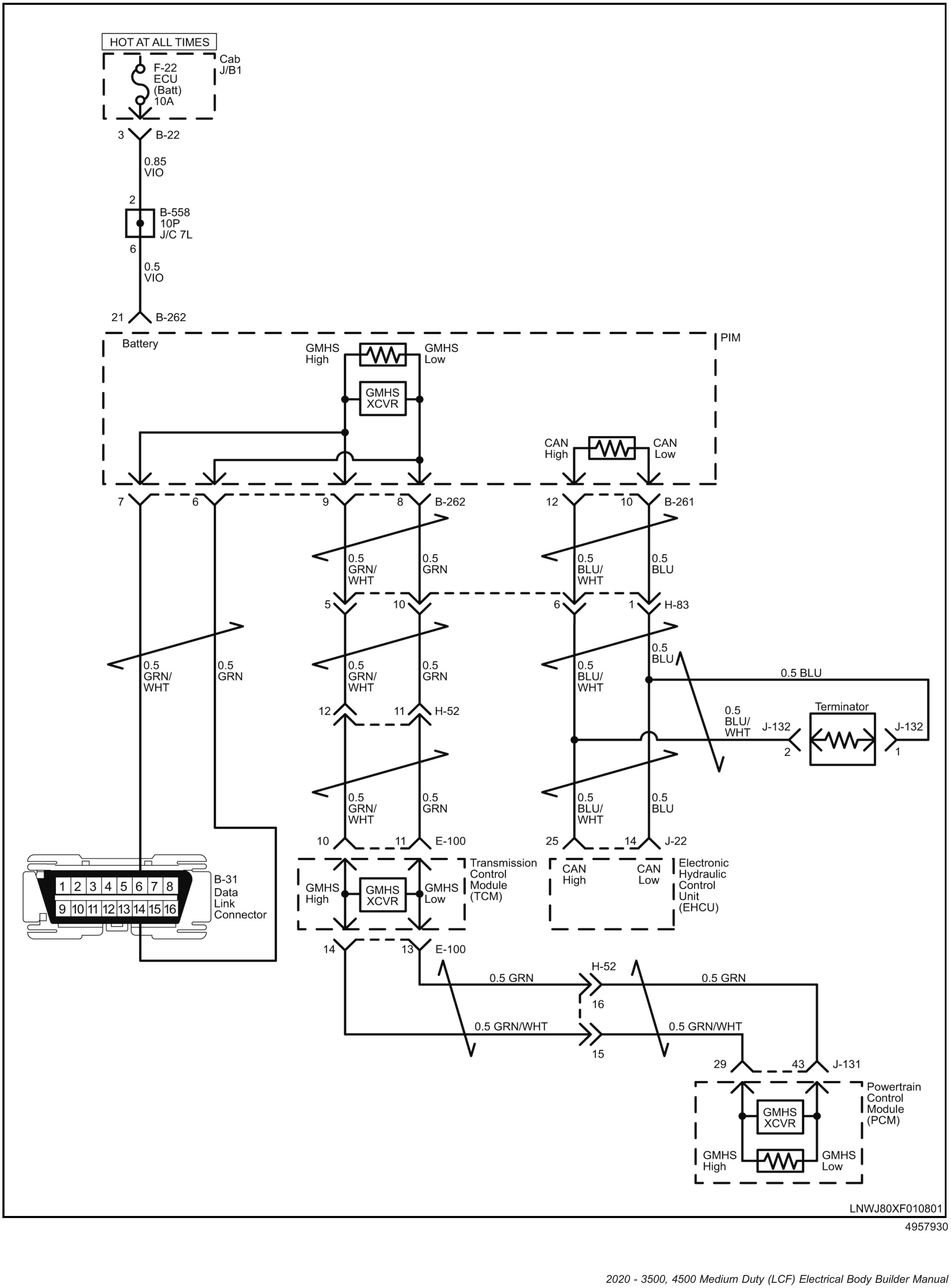
Electrical Schematic Symbols 5-157

BLANK

Cab and Chassis Electrical

Schematic and Routing Diagrams

Controller Area Network (CAN) Schematics


HOT AT ALL TIMES
Cab J/B1
F-22 ECU (Batt) 10A
3 B-22
0.85 VIO
2
B-558 10P J/C 7L
6
0.5 VIO
21 B-262
Battery
GMHS High
GMHS Low
GMHS XCVR
PIM
CAN High
CAN Low
7 6 9 8 B-262
12 10 B-261
0.5 GRN/WHT
0.5 GRN
0.5 BLU/WHT
0.5 BLU
5 10 6 1 H-83
0.5 BLU
12 11 H-52
Terminator
J-132
2
1
10 11 E-100
25 14 J-22
Transmission Control Module (TCM)
Electronic Hydraulic Control Unit (EHCU)
B-31 Data Link Connector
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
14 13 E-100
H-52
16
15
0.5 GRN
0.5 GRN/WHT
29 43 J-131
Powertrain Control Module (PCM)
LNWJ80XF010801

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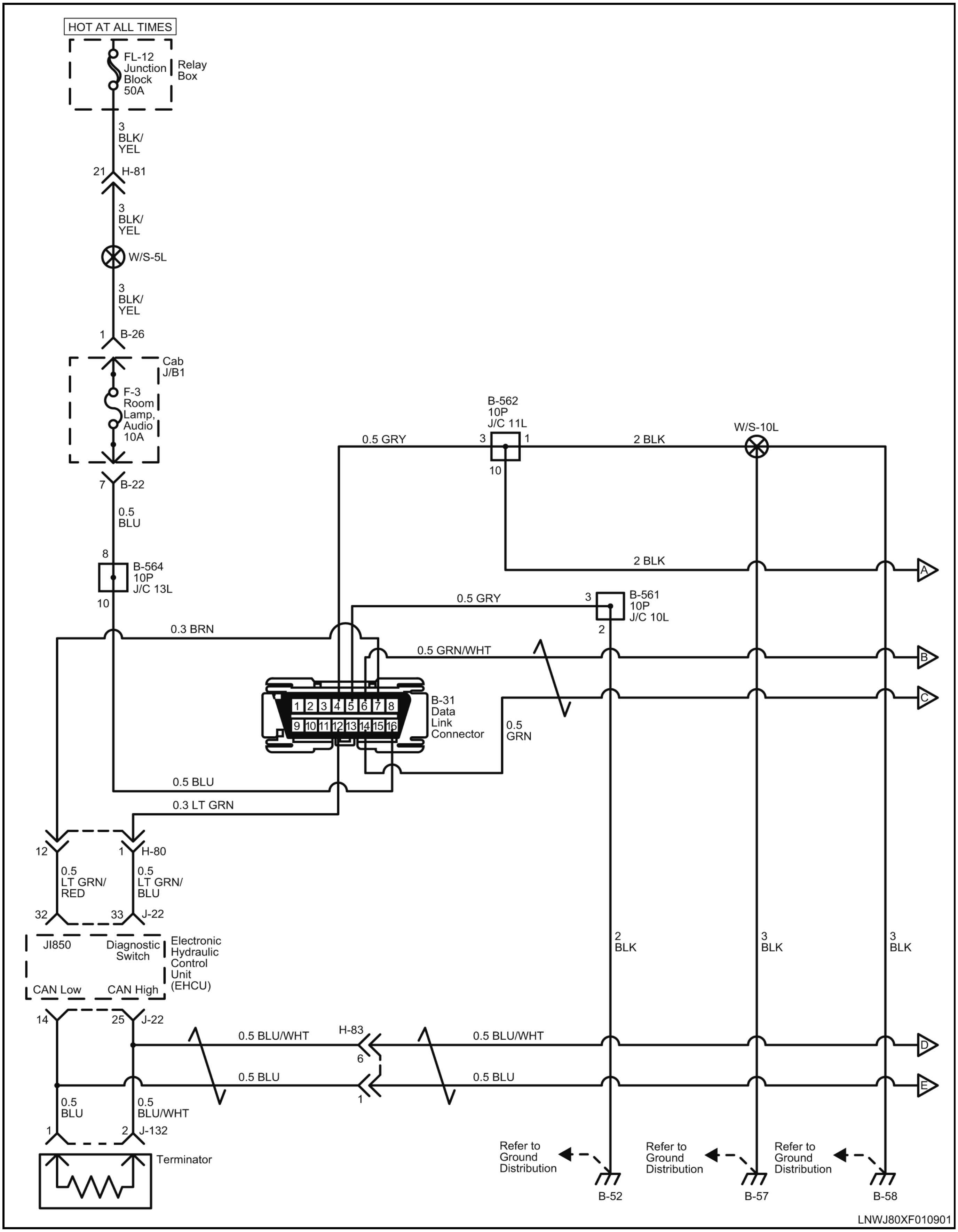
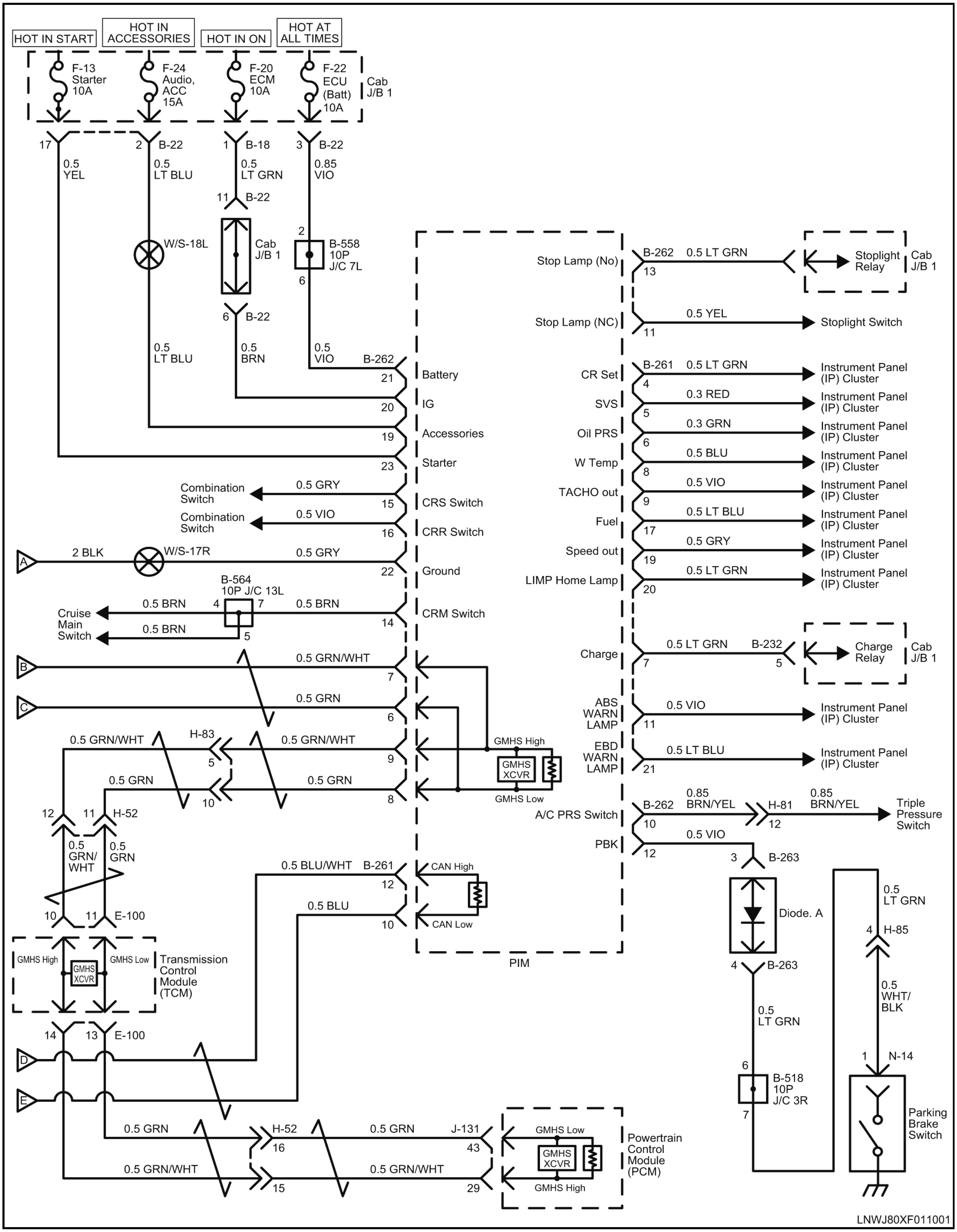
Data Link Connector Schematics


HOT AT ALL TIMES
FL-12 Junction Block 50A
Relay Box
3 BLK/ YEL
21 H-81
3 BLK/ YEL
W/S-5L
3 BLK/ YEL
1 B-26
Cab J/B1
F-3 Room Lamp, Audio 10A
7 B-22
0.5 BLU
8
B-564 10P J/C 13L
10
0.3 BRN
B-562 10P J/C 11L
3
1
10
0.5 GRY
2 BLK
W/S-10L
2 BLK
A
0.5 GRY
3
B-561 10P J/C 10L
2
0.5 GRN/WHT
B
C
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B-31 Data Link Connector
0.5 GRN
0.5 BLU
0.3 LT GRN
12
1 H-80
0.5 LT GRN/ RED
0.5 LT GRN/ BLU
32
33 J-22
JI850
Diagnostic Switch
CAN Low
CAN High
Electronic Hydraulic Control Unit (EHCU)
2 BLK
3 BLK
3 BLK
14
25 J-22
0.5 BLU/WHT
H-83
6
0.5 BLU/WHT
D
0.5 BLU
1
0.5 BLU
E
0.5 BLU
0.5 BLU/WHT
1
2 J-132
Terminator
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-52
B-57
B-58
LNWJ80XF010901

4958034


HOT IN START
HOT IN ACCESSORIES
HOT IN ON
HOT AT ALL TIMES
F-13 Starter 10A
F-24 Audio, ACC 15A
F-20 ECM 10A
F-22 ECU (Batt) 10A
Cab J/B 1
17
2 B-22
1 B-18
3 B-22
0.5 YEL
0.5 LT BLU
0.5 LT GRN
0.85 VIO
11 B-22
W/S-18L
Cab J/B 1
2
B-558 10P J/C 7L
6
6 B-22
0.5 LT BLU
0.5 BRN
0.5 VIO
B-262
21 Battery
20 IG
19 Accessories
23 Starter
Combination Switch
0.5 GRY
15 CRS Switch
Combination Switch
0.5 VIO
16 CRR Switch
A
2 BLK
W/S-17R
0.5 GRY
22 Ground
B-564 10P J/C 13L
Cruise Main Switch
0.5 BRN
4
7
0.5 BRN
14 CRM Switch
0.5 BRN
5
B
0.5 GRN/WHT
7
C
0.5 GRN
6
0.5 GRN/WHT
H-83
0.5 GRN/WHT
5
9
GMHS High
GMHS XCVR
0.5 GRN
0.5 GRN
10
8
GMHS Low
12
11 H-52
0.5 GRN/WHT
0.5 GRN
0.5 BLU/WHT B-261
12 CAN High
0.5 BLU
10 CAN Low
10
11 E-100
GMHS High
GMHS XCVR
GMHS Low
Transmission Control Module (TCM)
PIM
14
13 E-100
D
E
0.5 GRN
H-52
16
0.5 GRN J-131
43
GMHS Low
GMHS XCVR
Powertrain Control Module (PCM)
0.5 GRN/WHT
15
0.5 GRN/WHT
29
GMHS High
Stop Lamp (No)
B-262 0.5 LT GRN
13
Stoplight Relay
Cab J/B 1
Stop Lamp (NC)
0.5 YEL
11
Stoplight Switch
CR Set
B-261 0.5 LT GRN
4
Instrument Panel (IP) Cluster
SVS
0.3 RED
5
Instrument Panel (IP) Cluster
Oil PRS
0.3 GRN
6
Instrument Panel (IP) Cluster
W Temp
0.5 BLU
8
Instrument Panel (IP) Cluster
TACHO out
0.5 VIO
9
Instrument Panel (IP) Cluster
Fuel
0.5 LT BLU
17
Instrument Panel (IP) Cluster
Speed out
0.5 GRY
19
Instrument Panel (IP) Cluster
LIMP Home Lamp
0.5 LT GRN
20
Instrument Panel (IP) Cluster
Charge
0.5 LT GRN B-232
7
5
Charge Relay
Cab J/B 1
ABS WARN LAMP
0.5 VIO
11
Instrument Panel (IP) Cluster
EBD WARN LAMP
0.5 LT BLU
21
Instrument Panel (IP) Cluster
A/C PRS Switch
B-262
0.85 BRN/YEL
H-81
0.85 BRN/YEL
10
12
Triple Pressure Switch
PBK
0.5 VIO
12
3 B-263
Diode. A
4 B-263
0.5 LT GRN
6
B-518 10P J/C 3R
7
0.5 LT GRN
4 H-85
0.5 WHT/ BLK
1 N-14
Parking Brake Switch
LNWJ80XF011001

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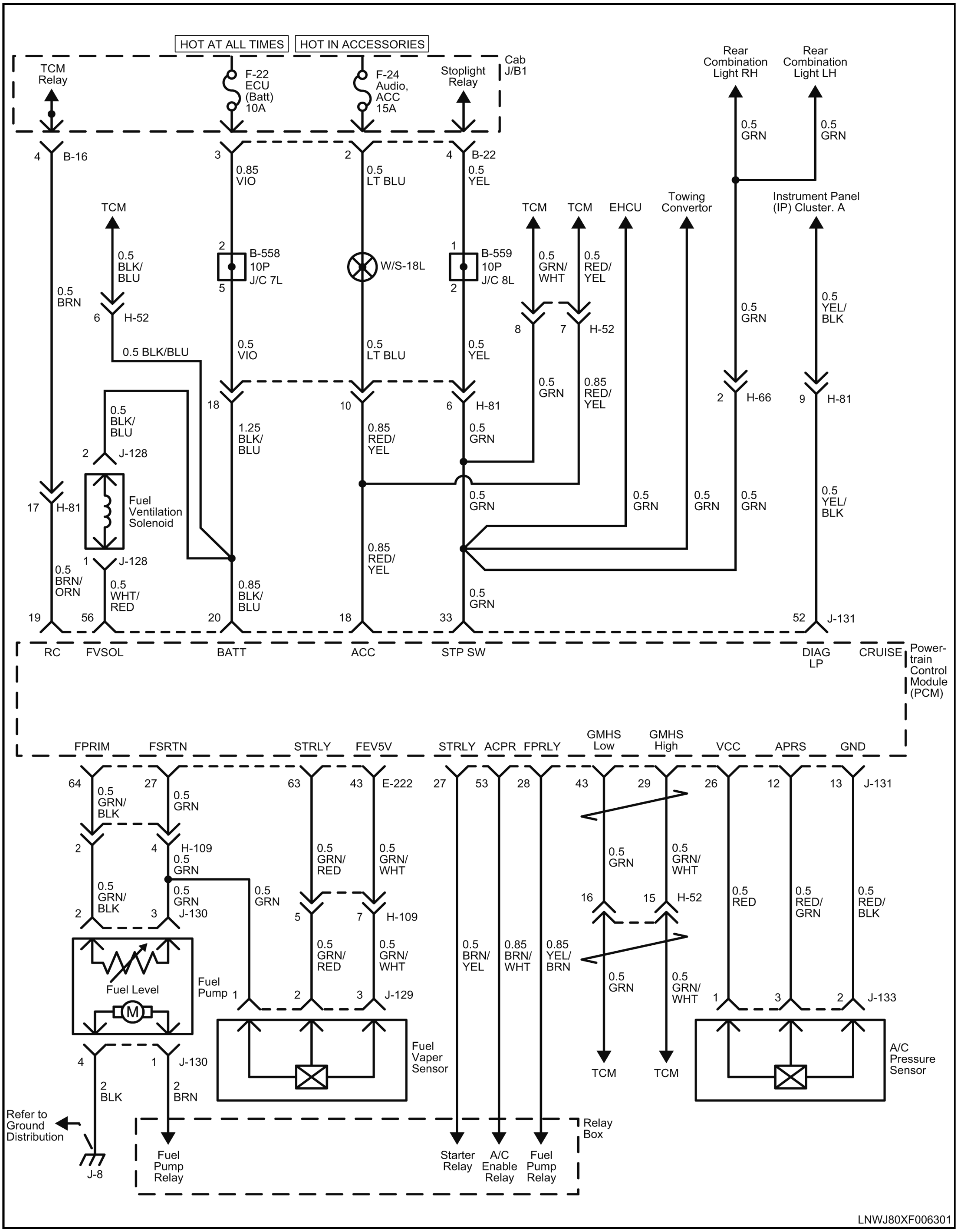
Engine Controls Schematics


HOT AT ALL TIMES
HOT IN ACCESSORIES
TCM Relay
F-22 ECU (Batt) 10A
F-24 Audio, ACC 15A
Stoplight Relay
Cab J/B1
Rear Combination Light RH
Rear Combination Light LH
B-16
B-22
0.85 VIO
0.5 LT BLU
0.5 YEL
0.5 GRN
TCM
EHCU
Towing Convertor
Instrument Panel (IP) Cluster. A
B-558 10P J/C 7L
W/S-18L
B-559 10P J/C 8L
0.5 BLK/BLU
0.5 BRN
H-52
0.5 GRN/WHT
0.5 RED/YEL
0.5 YEL/BLK
H-66
H-81
1.25 BLK/BLU
0.85 RED/YEL
0.85 RED/YEL
J-128
Fuel Ventilation Solenoid
0.5 BRN/ORN
0.5 WHT/RED
0.85 BLK/BLU
J-131
RC
FVSOL
BATT
ACC
STP SW
DIAG LP
CRUISE
Power-train Control Module (PCM)
FPRIM
FSRTN
STRLY
FEV5V
STRLY
ACPR
FPRLY
GMHS Low
GMHS High
VCC
APRS
GND
E-222
0.5 GRN/BLK
0.5 GRN/RED
H-109
J-130
Fuel Level
Fuel Pump
J-129
Fuel Vaper Sensor
0.5 BRN/YEL
0.85 BRN/WHT
0.85 YEL/BRN
0.5 RED
0.5 RED/GRN
0.5 RED/BLK
J-133
A/C Pressure Sensor
2 BLK
2 BRN
Refer to Ground Distribution
J-8
Fuel Pump Relay
Starter Relay
A/C Enable Relay
Fuel Pump Relay
Relay Box
LNWJ80XF006301

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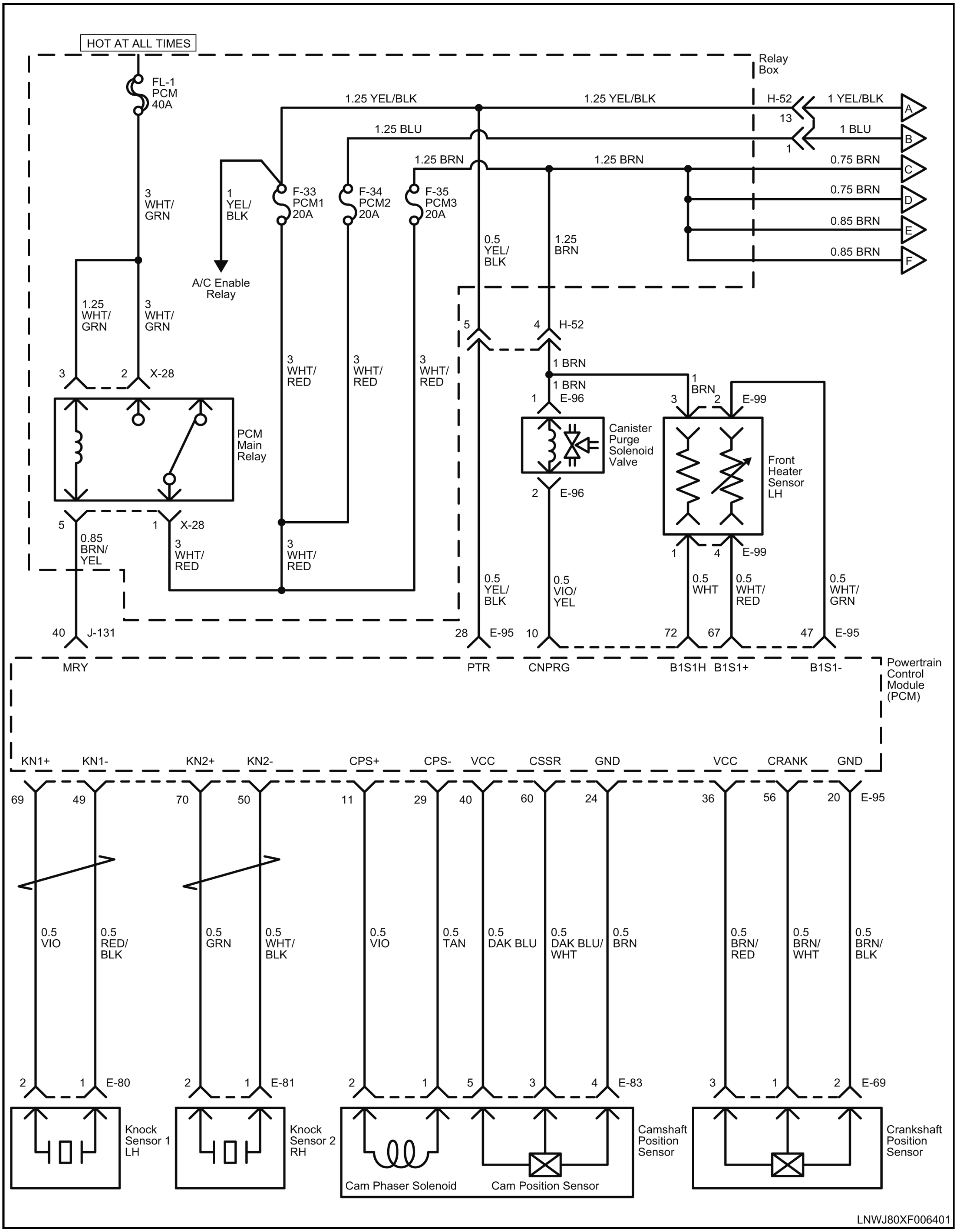
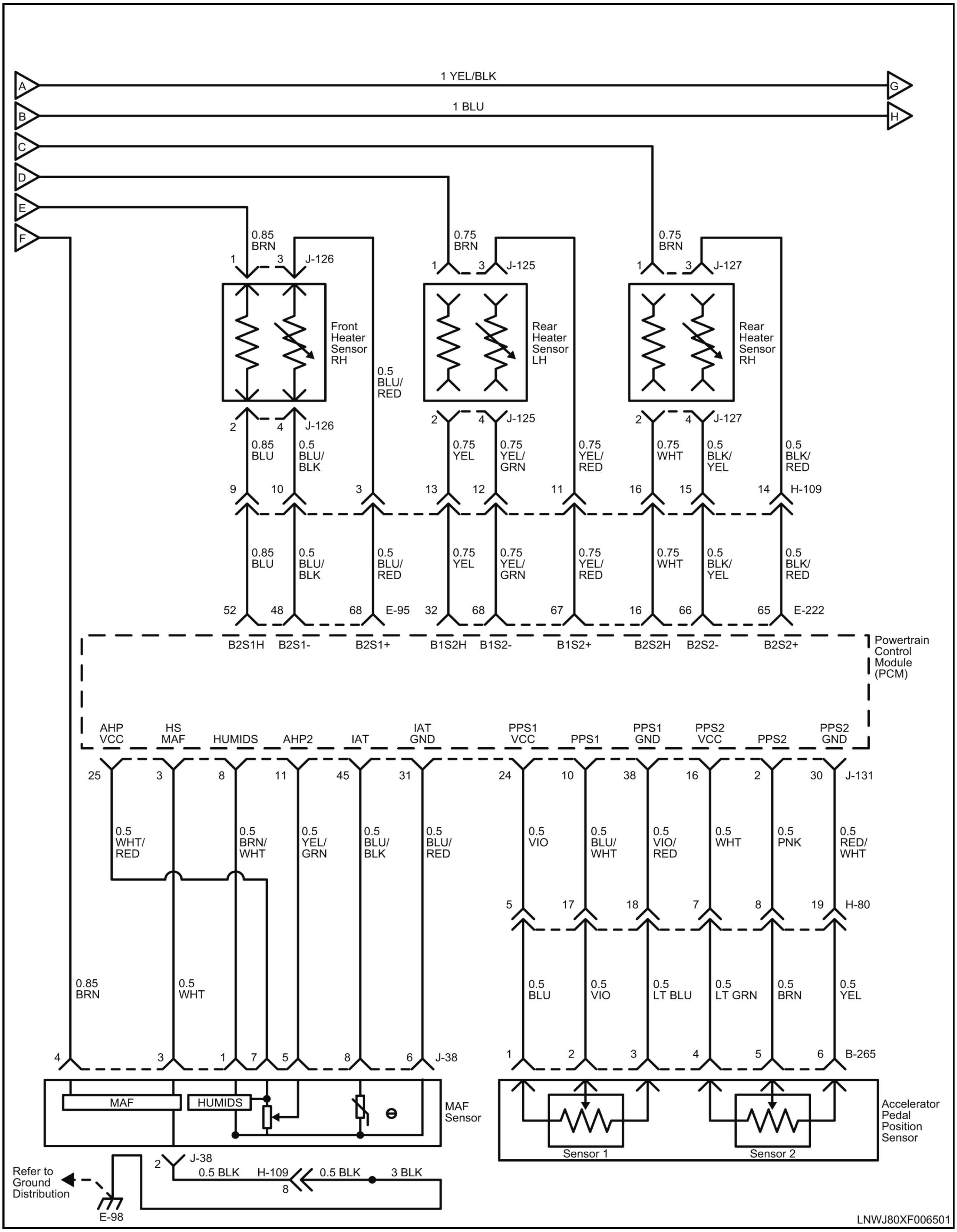

HOT AT ALL TIMES
Relay Box
FL-1 PCM 40A
1.25 YEL/BLK
1.25 YEL/BLK
H-52
13
1 YEL/BLK
A
1.25 BLU
1 BLU
1
B
1.25 BRN
1.25 BRN
0.75 BRN
C
0.75 BRN
D
0.85 BRN
E
0.85 BRN
F
3 WHT/ GRN
1 YEL/ BLK
F-33 PCM1 20A
F-34 PCM2 20A
F-35 PCM3 20A
0.5 YEL/ BLK
1.25 BRN
A/C Enable Relay
1.25 WHT/ GRN
3 WHT/ GRN
5
4
H-52
3
2
X-28
3 WHT/ RED
3 WHT/ RED
3 WHT/ RED
1 BRN
1 BRN
1
E-96
1 BRN
3
2
E-99
PCM Main Relay
Canister Purge Solenoid Valve
Front Heater Sensor LH
2
E-96
5
1
X-28
0.85 BRN/ YEL
3 WHT/ RED
3 WHT/ RED
1
4
E-99
0.5 YEL/ BLK
0.5 VIO/ YEL
0.5 WHT
0.5 WHT/ RED
0.5 WHT/ GRN
40
J-131
28
E-95
10
72
67
47
E-95
MRY
PTR
CNPRG
B1S1H
B1S1+
B1S1-
Powertrain Control Module (PCM)
KN1+
KN1-
KN2+
KN2-
CPS+
CPS-
VCC
CSSR
GND
VCC
CRANK
GND
69
49
70
50
11
29
40
60
24
36
56
20
E-95
0.5 VIO
0.5 RED/ BLK
0.5 GRN
0.5 WHT/ BLK
0.5 VIO
0.5 TAN
0.5 DAK BLU
0.5 DAK BLU/ WHT
0.5 BRN
0.5 BRN/ RED
0.5 BRN/ WHT
0.5 BRN/ BLK
2
1
E-80
2
1
E-81
2
1
5
3
4
E-83
3
1
2
E-69
Knock Sensor 1 LH
Knock Sensor 2 RH
Camshaft Position Sensor
Crankshaft Position Sensor
Cam Phaser Solenoid
Cam Position Sensor
LNWJ80XF006401

4957002


A
B
C
D
E
F
G
H
1 YEL/BLK
1 BLU
0.85 BRN
0.75 BRN
0.75 BRN
1
3
J-126
1
3
J-125
1
3
J-127
Front Heater Sensor RH
Rear Heater Sensor LH
Rear Heater Sensor RH
0.5 BLU/ RED
2
4
J-126
2
4
J-125
2
4
J-127
0.85 BLU
0.5 BLU/ BLK
0.75 YEL
0.75 YEL/ GRN
0.75 YEL/ RED
0.75 WHT
0.5 BLK/ YEL
0.5 BLK/ RED
9
10
3
13
12
11
16
15
14
H-109
0.85 BLU
0.5 BLU/ BLK
0.5 BLU/ RED
0.75 YEL
0.75 YEL/ GRN
0.75 YEL/ RED
0.75 WHT
0.5 BLK/ YEL
0.5 BLK/ RED
52
48
68
E-95
32
68
67
16
66
65
E-222
B2S1H
B2S1-
B2S1+
B1S2H
B1S2-
B1S2+
B2S2H
B2S2-
B2S2+
Powertrain Control Module (PCM)
AHP VCC
HS MAF
HUMIDS
AHP2
IAT
IAT GND
PPS1 VCC
PPS1
PPS1 GND
PPS2 VCC
PPS2
PPS2 GND
25
3
8
11
45
31
24
10
38
16
2
30
J-131
0.5 WHT/ RED
0.5 BRN/ WHT
0.5 YEL/ GRN
0.5 BLU/ BLK
0.5 BLU/ RED
0.5 VIO
0.5 BLU/ WHT
0.5 VIO/ RED
0.5 WHT
0.5 PNK
0.5 RED/ WHT
5
17
18
7
8
19
H-80
0.85 BRN
0.5 WHT
0.5 BLU
0.5 VIO
0.5 LT BLU
0.5 LT GRN
0.5 BRN
0.5 YEL
4
3
1
7
5
8
6
J-38
1
2
3
4
5
6
B-265
MAF
HUMIDS
MAF Sensor
Sensor 1
Sensor 2
Accelerator Pedal Position Sensor
2
J-38
0.5 BLK
H-109
8
0.5 BLK
3 BLK
Refer to Ground Distribution
E-98

LNWJ80XF006501

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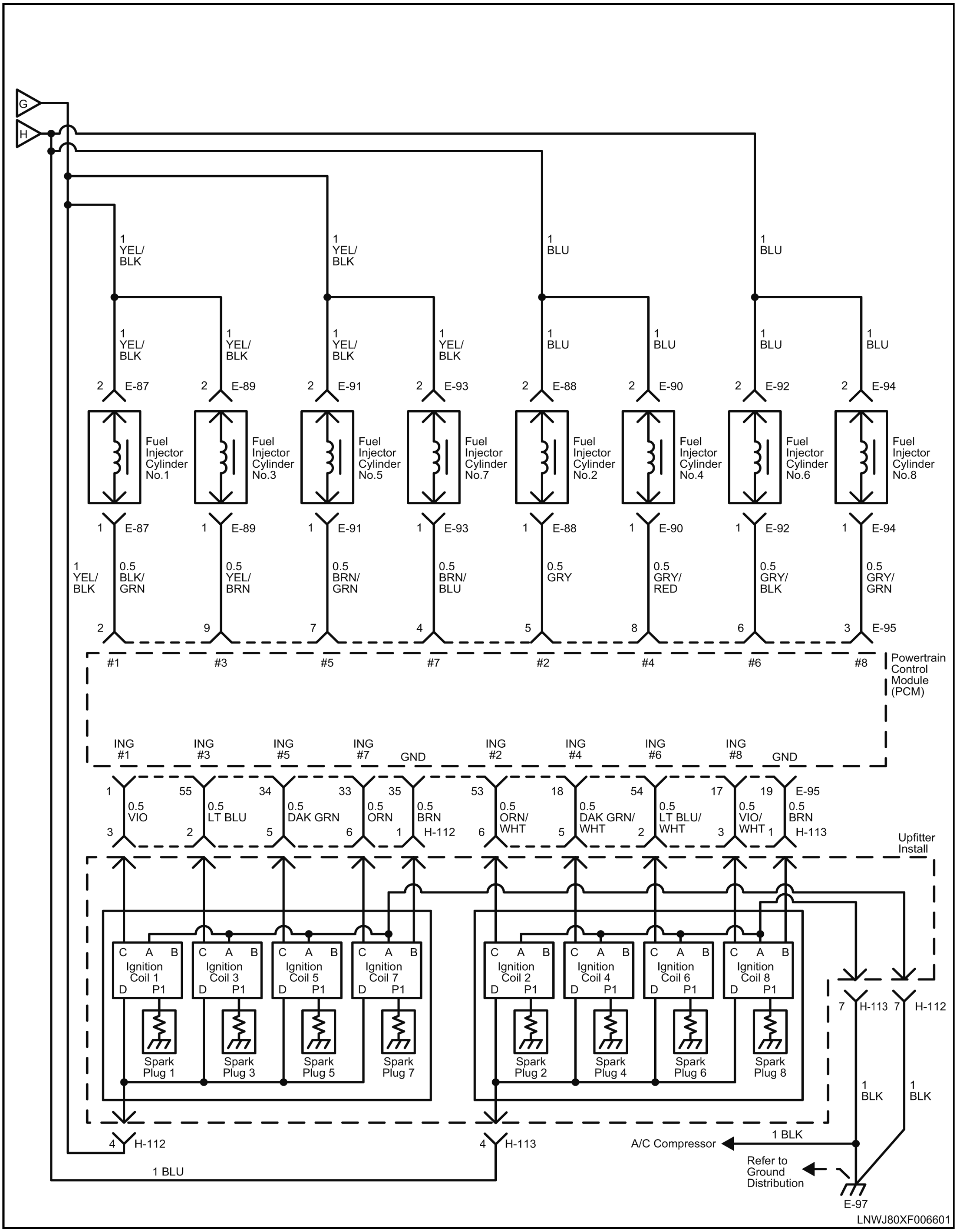
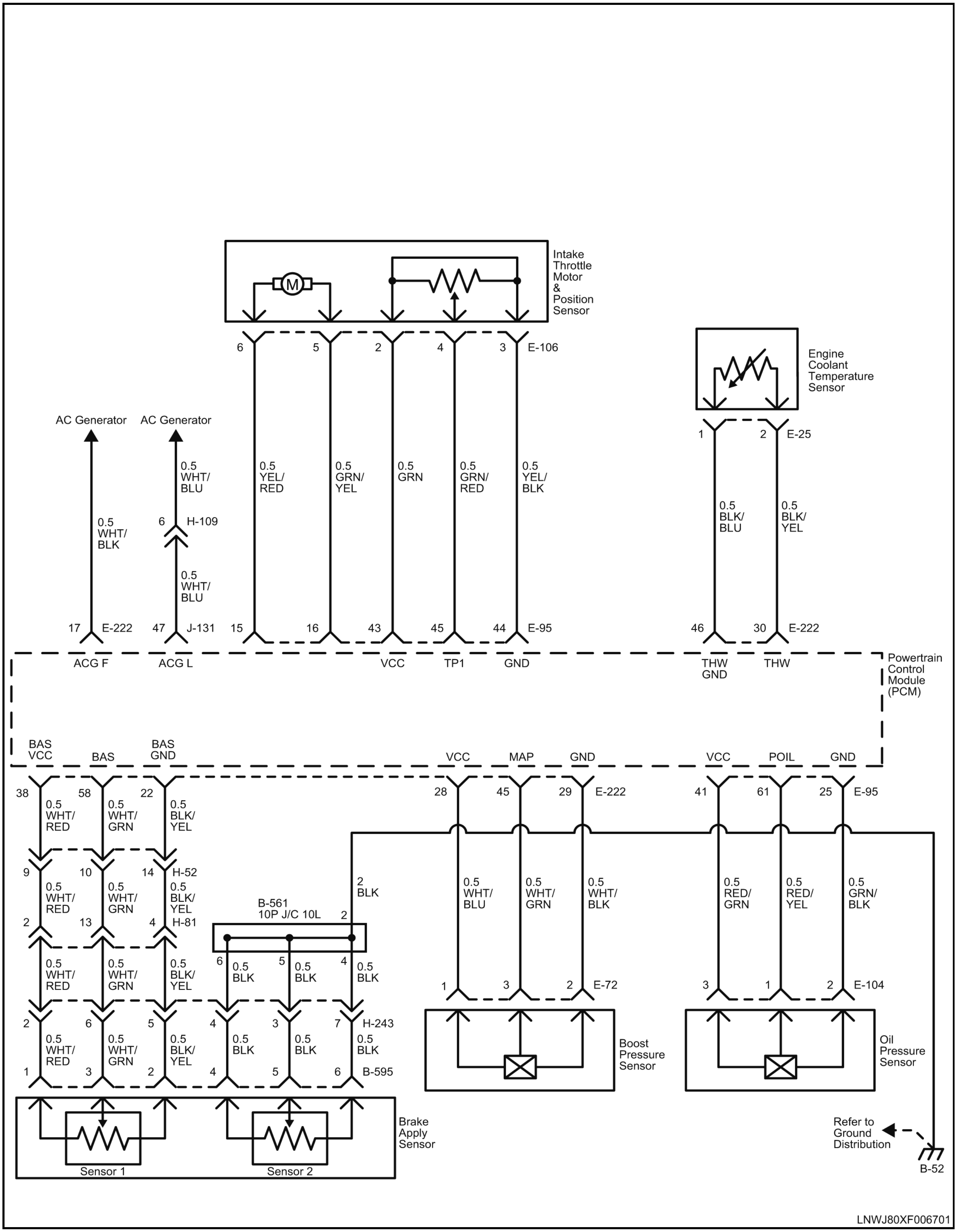

G
H
1 YEL/ BLK
1 YEL/ BLK
1 BLU
1 BLU
1 YEL/ BLK
1 YEL/ BLK
1 YEL/ BLK
1 YEL/ BLK
1 BLU
1 BLU
1 BLU
1 BLU
2 E-87
2 E-89
2 E-91
2 E-93
2 E-88
2 E-90
2 E-92
2 E-94
Fuel Injector Cylinder No.1
Fuel Injector Cylinder No.3
Fuel Injector Cylinder No.5
Fuel Injector Cylinder No.7
Fuel Injector Cylinder No.2
Fuel Injector Cylinder No.4
Fuel Injector Cylinder No.6
Fuel Injector Cylinder No.8
1 E-87
1 E-89
1 E-91
1 E-93
1 E-88
1 E-90
1 E-92
1 E-94
1 YEL/ BLK
0.5 BLK/ GRN
0.5 YEL/ BRN
0.5 BRN/ GRN
0.5 BRN/ BLU
0.5 GRY
0.5 GRY/ RED
0.5 GRY/ BLK
0.5 GRY/ GRN
2
9
7
4
5
8
6
3 E-95
#1
#3
#5
#7
#2
#4
#6
#8
Powertrain Control Module (PCM)
ING #1
ING #3
ING #5
ING #7
GND
ING #2
ING #4
ING #6
ING #8
GND
1
55
34
33
35
53
18
54
17
19 E-95
0.5 VIO
0.5 LT BLU
0.5 DAK GRN
0.5 ORN
0.5 BRN
0.5 ORN/ WHT
0.5 DAK GRN/ WHT
0.5 LT BLU/ WHT
0.5 VIO/ WHT
0.5 BRN
3
2
5
6
1 H-112
6
5
2
3
1 H-113
Upfitter Install
C A B Ignition Coil 1 D P1
C A B Ignition Coil 3 D P1
C A B Ignition Coil 5 D P1
C A B Ignition Coil 7 D P1
C A B Ignition Coil 2 D P1
C A B Ignition Coil 4 D P1
C A B Ignition Coil 6 D P1
C A B Ignition Coil 8 D P1
Spark Plug 1
Spark Plug 3
Spark Plug 5
Spark Plug 7
Spark Plug 2
Spark Plug 4
Spark Plug 6
Spark Plug 8
7 H-113
7 H-112
1 BLK
1 BLK
4 H-112
4 H-113
A/C Compressor
1 BLK
1 BLU
Refer to Ground Distribution
E-97

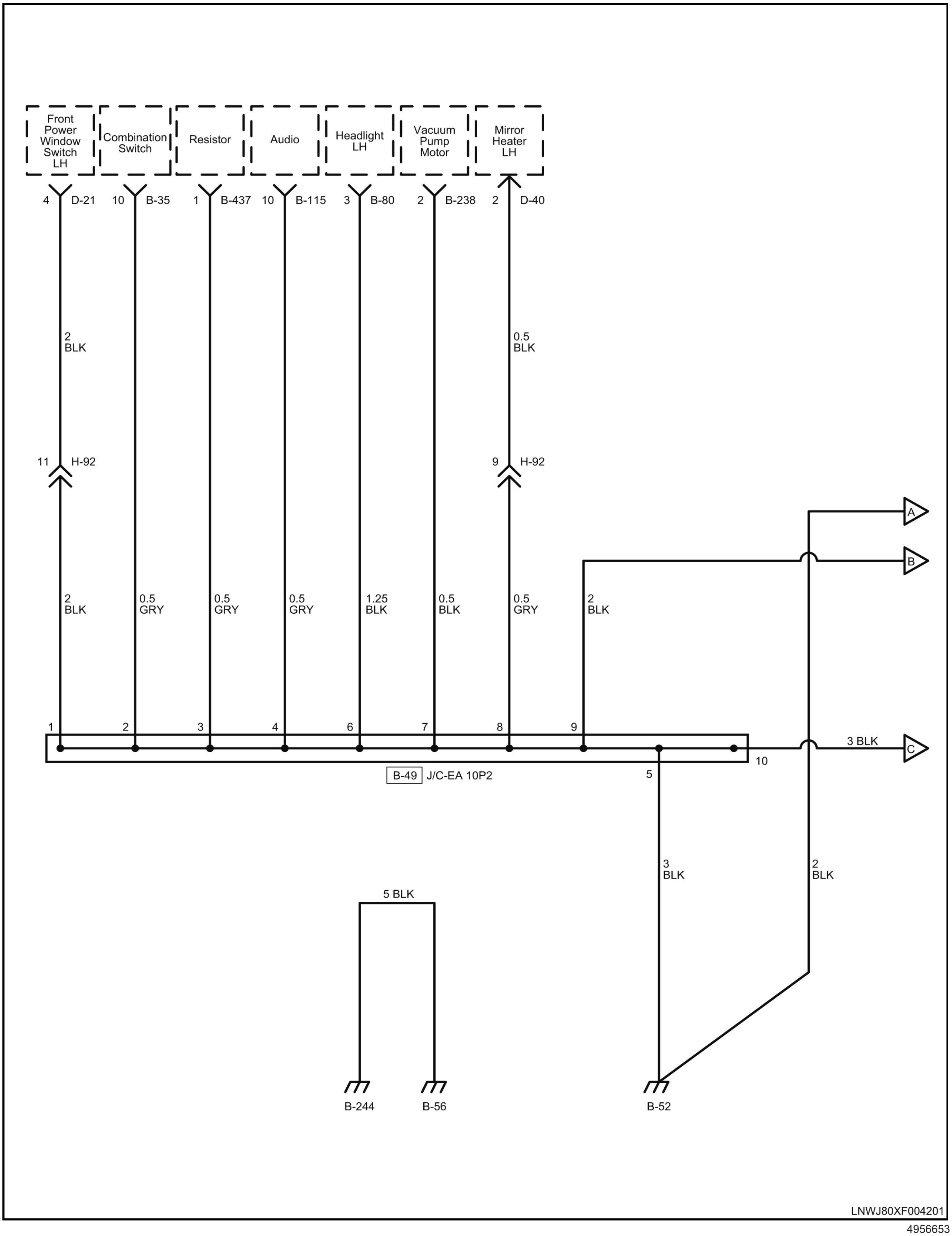
LNWJ80XF006601

4957017

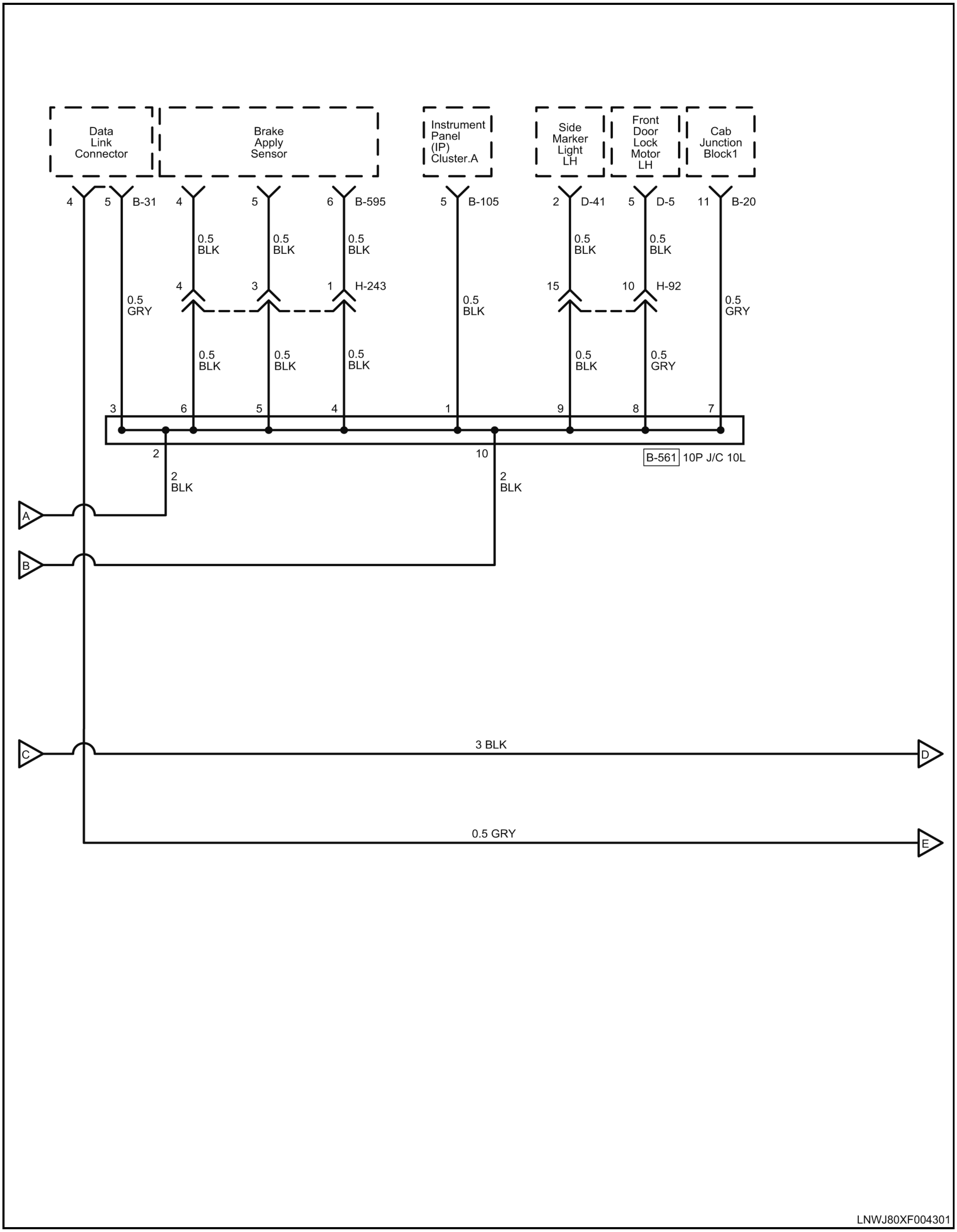

Intake Throttle Motor & Position Sensor
M
6
5
2
4
3
E-106
Engine Coolant Temperature Sensor
1
2
E-25
AC Generator
AC Generator
0.5 WHT/ BLU
0.5 YEL/ RED
0.5 GRN/ YEL
0.5 GRN
0.5 GRN/ RED
0.5 YEL/ BLK
0.5 BLK/ BLU
0.5 BLK/ YEL
0.5 WHT/ BLK
6
H-109
0.5 WHT/ BLU
17
E-222
47
J-131
15
16
43
45
44
E-95
46
30
E-222
ACG F
ACG L
VCC
TP1
GND
THW GND
THW
Powertrain Control Module (PCM)
BAS VCC
BAS
BAS GND
VCC
MAP
GND
VCC
POIL
GND
38
58
22
28
45
29
E-222
41
61
25
E-95
0.5 WHT/ RED
0.5 WHT/ GRN
0.5 BLK/ YEL
9
10
14
H-52
0.5 WHT/ RED
0.5 WHT/ GRN
0.5 BLK/ YEL
2
13
4
H-81
2 BLK
B-561 10P J/C 10L
2
0.5 WHT/ BLU
0.5 WHT/ GRN
0.5 WHT/ BLK
0.5 RED/ GRN
0.5 RED/ YEL
0.5 GRN/ BLK
0.5 WHT/ RED
0.5 WHT/ GRN
0.5 BLK/ YEL
6
0.5 BLK
5
0.5 BLK
4
0.5 BLK
1
3
2
E-72
3
1
2
E-104
2
6
5
4
3
7
H-243
0.5 WHT/ RED
0.5 WHT/ GRN
0.5 BLK/ YEL
0.5 BLK
0.5 BLK
0.5 BLK
1
3
2
4
5
6
B-595
Boost Pressure Sensor
Oil Pressure Sensor
Brake Apply Sensor
Sensor 1
Sensor 2
Refer to Ground Distribution
B-52
LNWJ80XF006701

4957033

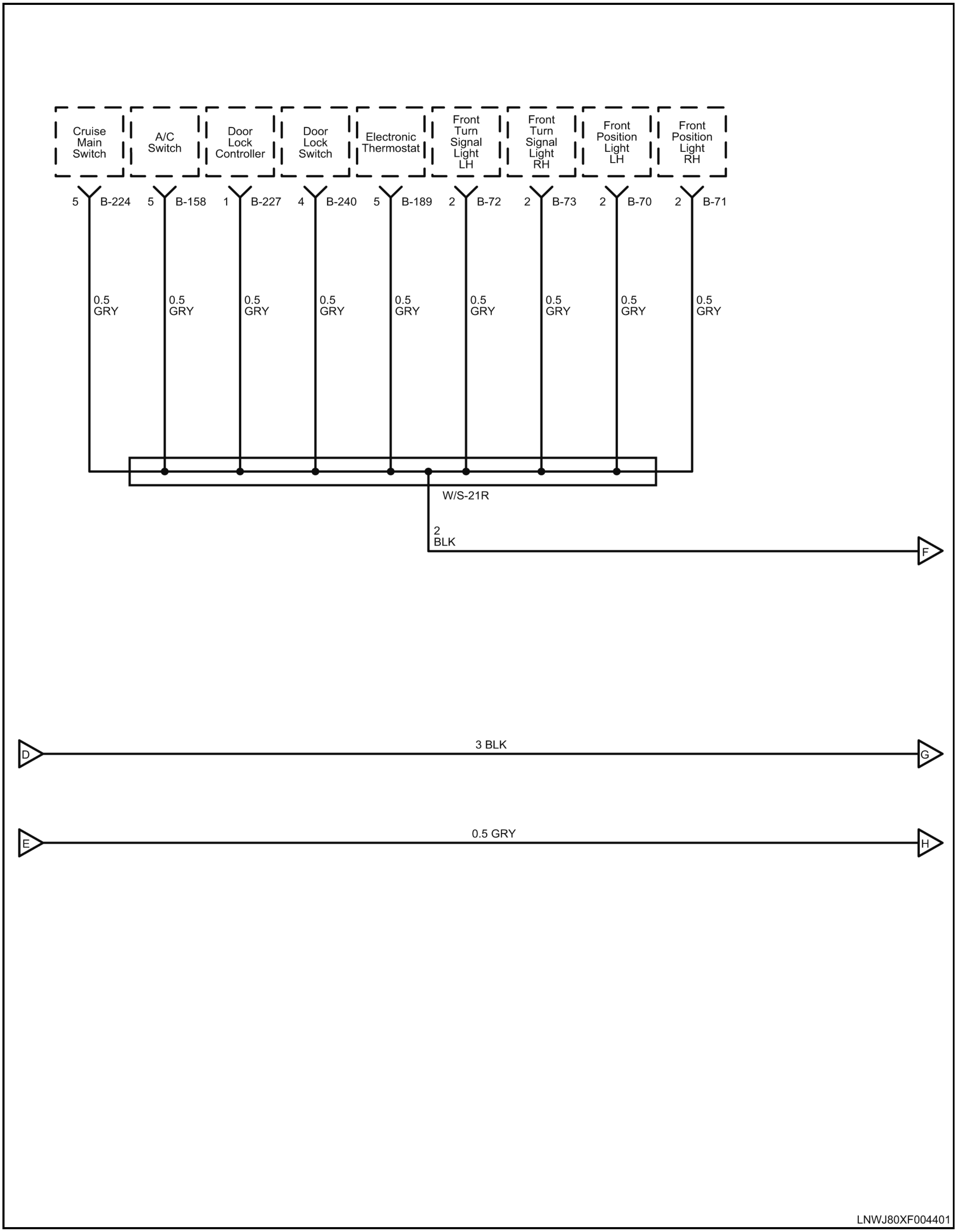
Ground Distribution Schematics


Front Power Window Switch LH
Combination Switch
Resistor
Audio
Headlight LH
Vacuum Pump Motor
Mirror Heater LH
4 D-21
10 B-35
1 B-437
10 B-115
3 B-80
2 B-238
2 D-40
2 BLK
0.5 BLK
11 H-92
9 H-92
A
B
2 BLK
0.5 GRY
0.5 GRY
0.5 GRY
1.25 BLK
0.5 BLK
0.5 GRY
2 BLK
1
2
3
4
6
7
8
9
3 BLK
C
10
B-49 J/C-EA 10P2
5
3 BLK
2 BLK
5 BLK
B-244
B-56
B-52
LNWJ80XF004201

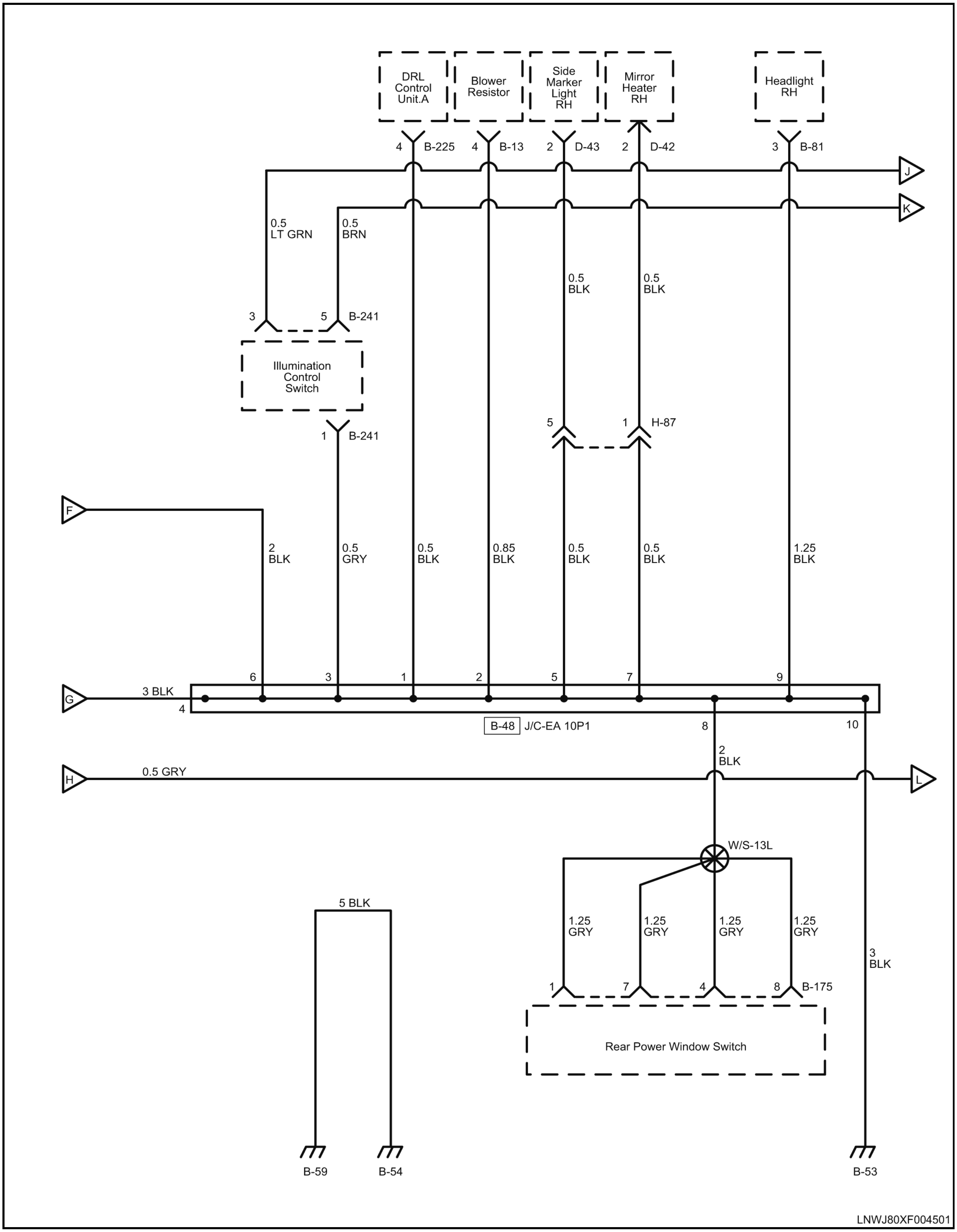
4956653


Data Link Connector
Brake Apply Sensor
Instrument Panel (IP) Cluster.A
Side Marker Light LH
Front Door Lock Motor LH
Cab Junction Block1
4
5
B-31
4
5
6
B-595
5
B-105
2
D-41
5
D-5
11
B-20
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
4
3
1
H-243
15
10
H-92
0.5 GRY
0.5 BLK
0.5 GRY
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 GRY
3
6
5
4
1
9
8
7
2
10
B-561
10P J/C 10L
2 BLK
2 BLK
A
B
C
3 BLK
D
0.5 GRY
E
LNWJ80XF004301

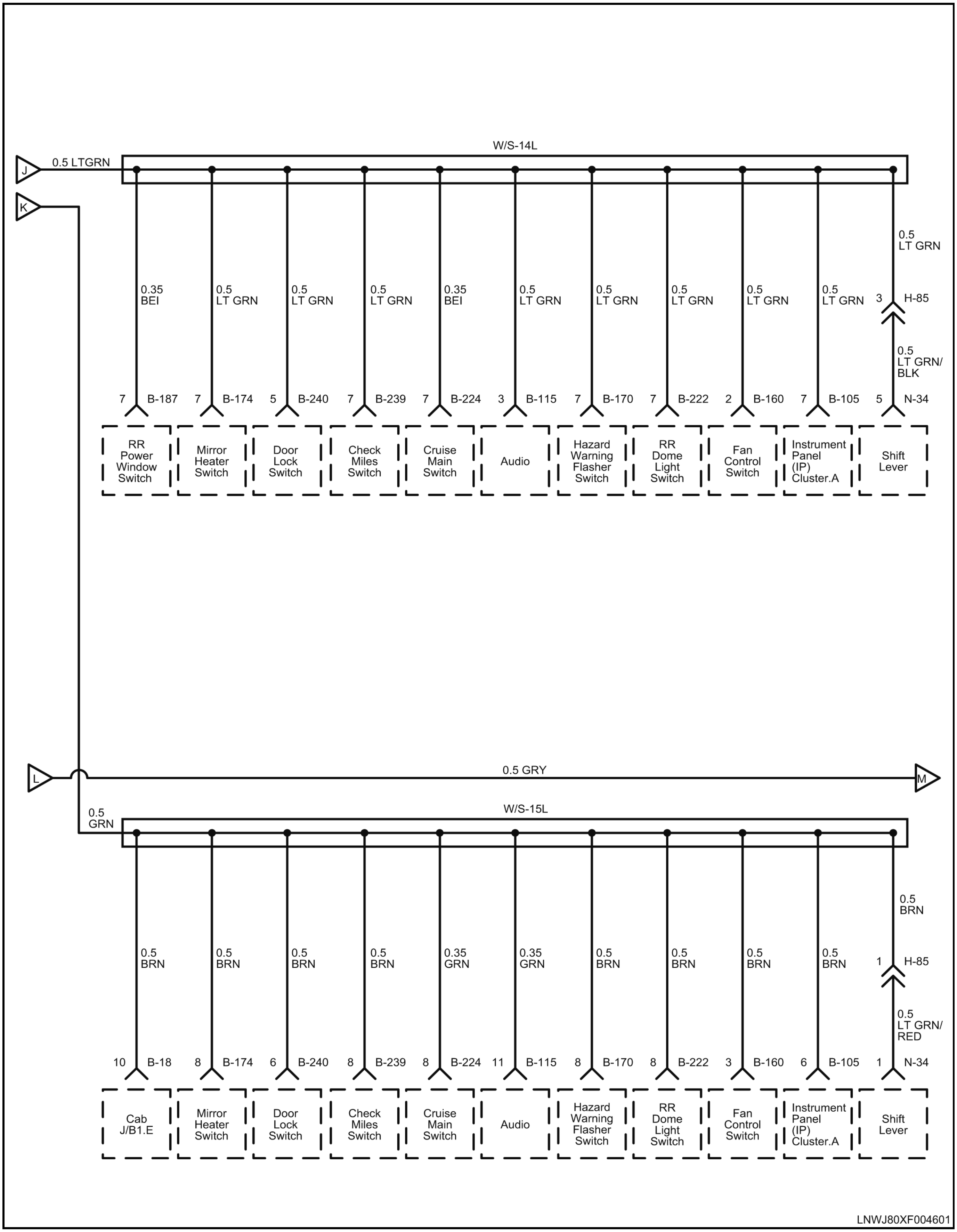
4956657


Cruise Main Switch
A/C Switch
Door Lock Controller
Door Lock Switch
Electronic Thermostat
Front Turn Signal Light LH
Front Turn Signal Light RH
Front Position Light LH
Front Position Light RH
5 B-224
5 B-158
1 B-227
4 B-240
5 B-189
2 B-72
2 B-73
2 B-70
2 B-71
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
W/S-21R
2 BLK
F
D
3 BLK
G
E
0.5 GRY
H
LNWJ80XF004401

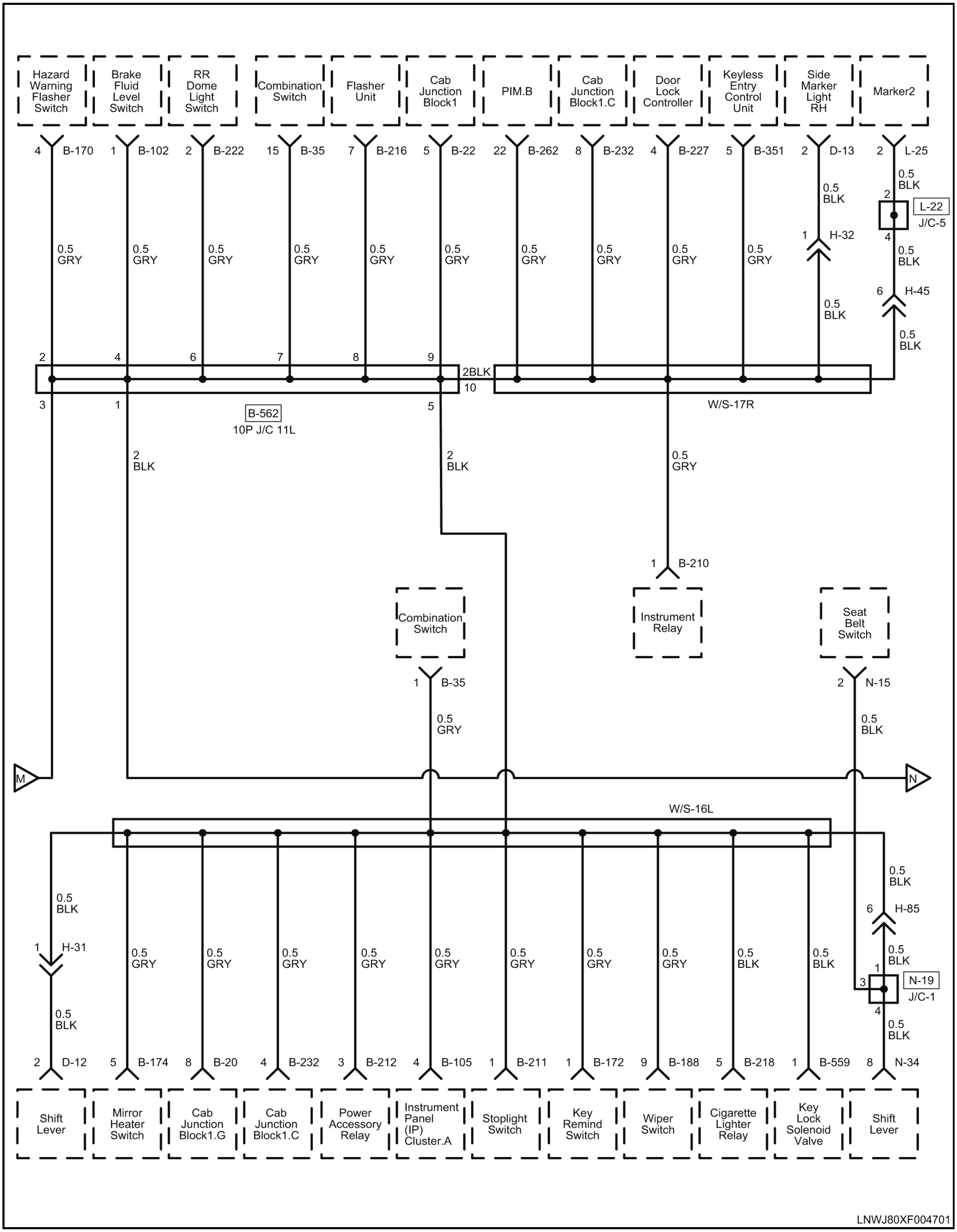
4956659


DRL Control Unit.A
Blower Resistor
Side Marker Light RH
Mirror Heater RH
Headlight RH
4 B-225
4 B-13
2 D-43
2 D-42
3 B-81
J
K
0.5 LT GRN
0.5 BRN
0.5 BLK
0.5 BLK
3
5 B-241
Illumination Control Switch
1 B-241
5
1 H-87
F
2 BLK
0.5 GRY
0.5 BLK
0.85 BLK
0.5 BLK
0.5 BLK
1.25 BLK
6
3
1
2
5
7
9
G
3 BLK
4
B-48 J/C-EA 10P1
8
10
2 BLK
H
0.5 GRY
L
W/S-13L
5 BLK
1.25 GRY
1.25 GRY
1.25 GRY
1.25 GRY
3 BLK
1
7
4
8 B-175
Rear Power Window Switch
B-59
B-54
B-53
LNWJ80XF004501

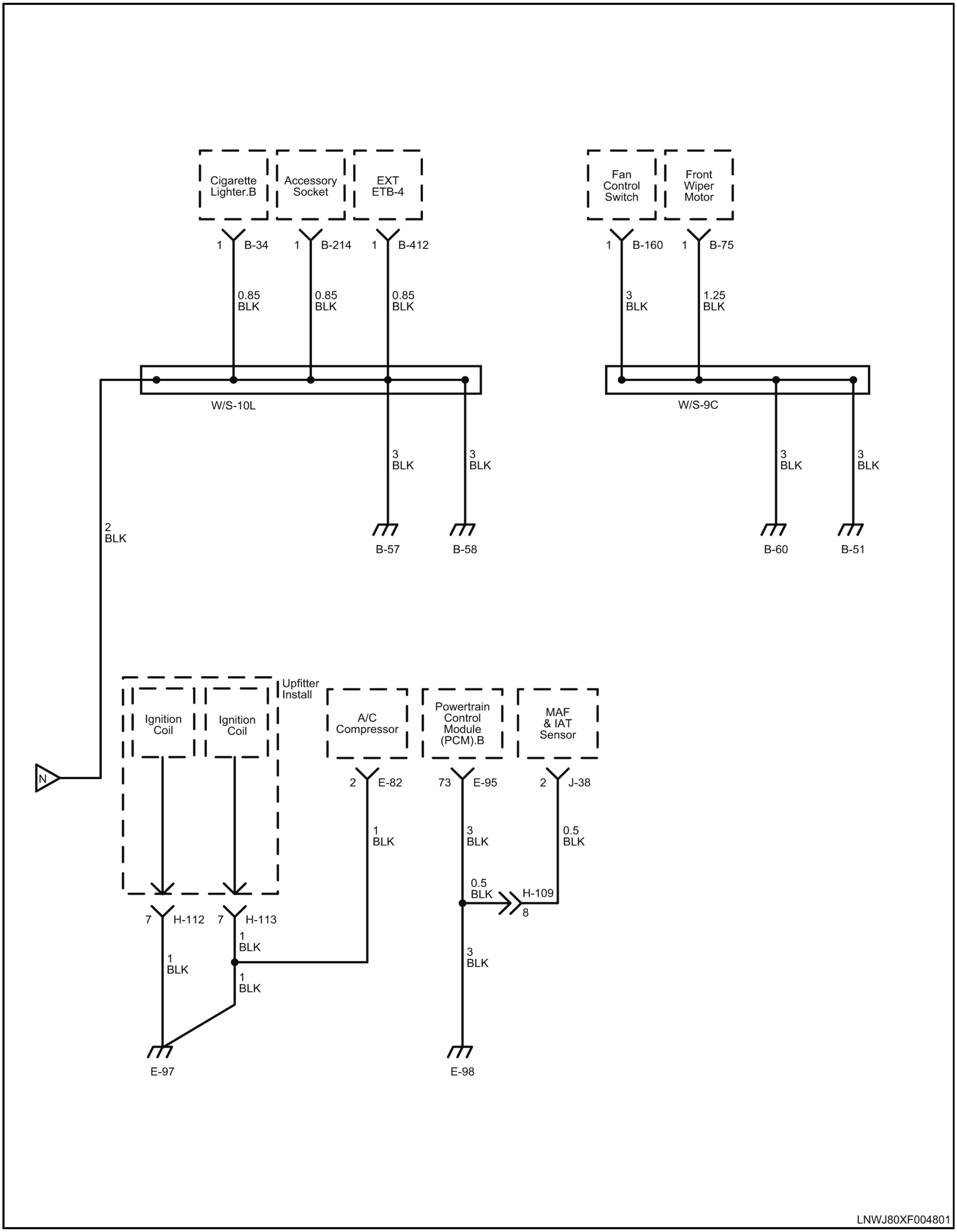
4956664


J
0.5 LTGRN
K
W/S-14L
0.35 BEI
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.35 BEI
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
3 H-85
0.5 LT GRN/ BLK
7 B-187
7 B-174
5 B-240
7 B-239
7 B-224
3 B-115
7 B-170
7 B-222
2 B-160
7 B-105
5 N-34
RR Power Window Switch
Mirror Heater Switch
Door Lock Switch
Check Miles Switch
Cruise Main Switch
Audio
Hazard Warning Flasher Switch
RR Dome Light Switch
Fan Control Switch
Instrument Panel (IP) Cluster.A
Shift Lever
L
0.5 GRY
M
0.5 GRN
W/S-15L
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BRN
0.35 GRN
0.35 GRN
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BRN
1 H-85
0.5 LT GRN/ RED
10 B-18
8 B-174
6 B-240
8 B-239
8 B-224
11 B-115
8 B-170
8 B-222
3 B-160
6 B-105
1 N-34
Cab J/B1.E
Mirror Heater Switch
Door Lock Switch
Check Miles Switch
Cruise Main Switch
Audio
Hazard Warning Flasher Switch
RR Dome Light Switch
Fan Control Switch
Instrument Panel (IP) Cluster.A
Shift Lever
LNWJ80XF004601

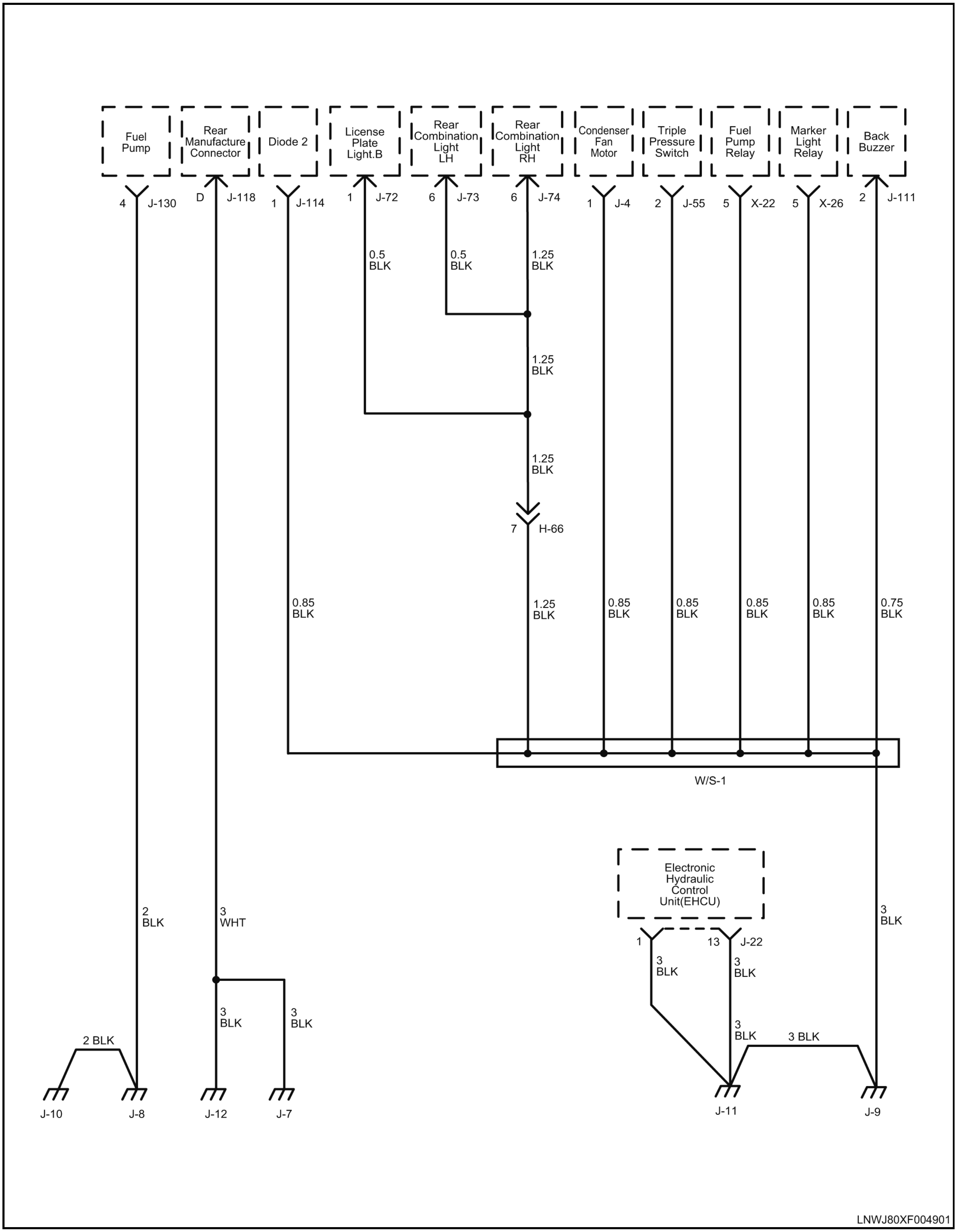
4956667


Hazard Warning Flasher Switch
Brake Fluid Level Switch
RR Dome Light Switch
Combination Switch
Flasher Unit
Cab Junction Block1
PIM.B
Cab Junction Block1.C
Door Lock Controller
Keyless Entry Control Unit
Side Marker Light RH
Marker2
4 B-170
1 B-102
2 B-222
15 B-35
7 B-216
5 B-22
22 B-262
8 B-232
4 B-227
5 B-351
2 D-13
2 L-25
0.5 BLK
2
L-22
J/C-5
4
0.5 BLK
1 H-32
6 H-45
0.5 GRY
2 4 6 7 8 9
2BLK
10
3 1 5
B-562
10P J/C 11L
W/S-17R
2 BLK
0.5 GRY
1 B-210
Combination Switch
Instrument Relay
Seat Belt Switch
1 B-35
2 N-15
0.5 GRY
0.5 BLK
M
N
W/S-16L
0.5 BLK
6 H-85
1 H-31
3
1
N-19
J/C-1
4
2 D-12
5 B-174
8 B-20
4 B-232
3 B-212
4 B-105
1 B-211
1 B-172
9 B-188
5 B-218
1 B-559
8 N-34
Shift Lever
Mirror Heater Switch
Cab Junction Block1.G
Cab Junction Block1.C
Power Accessory Relay
Instrument Panel (IP) Cluster.A
Stoplight Switch
Key Remind Switch
Wiper Switch
Cigarette Lighter Relay
Key Lock Solenoid Valve
Shift Lever
LNWJ80XF004701

4956687

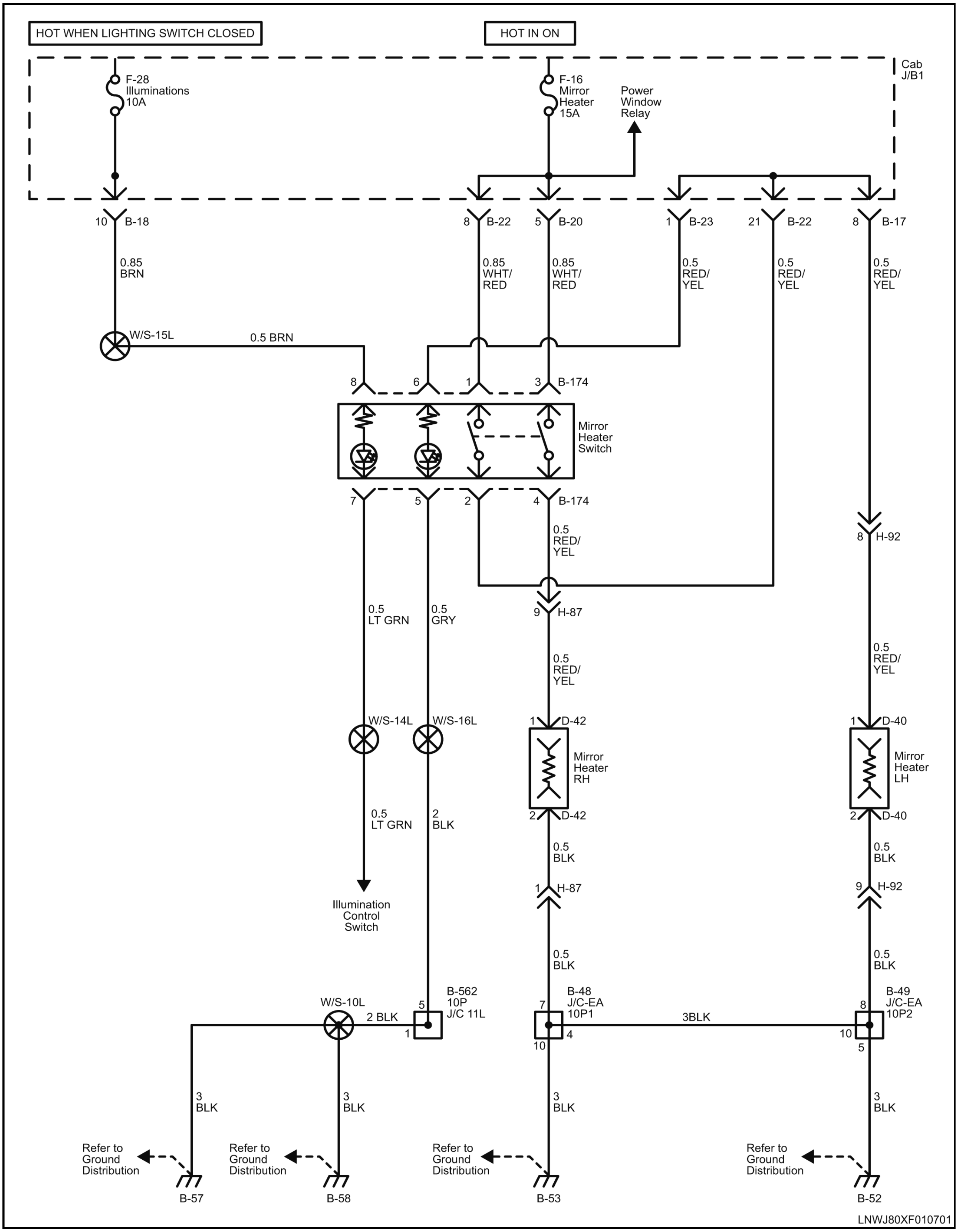

Cigarette Lighter.B
Accessory Socket
EXT ETB-4
1 B-34
1 B-214
1 B-412
0.85 BLK
0.85 BLK
0.85 BLK
W/S-10L
3 BLK
3 BLK
B-57
B-58
2 BLK
Fan Control Switch
Front Wiper Motor
1 B-160
1 B-75
3 BLK
1.25 BLK
W/S-9C
3 BLK
3 BLK
B-60
B-51
N
Upfitter Install
Ignition Coil
Ignition Coil
A/C Compressor
Powertrain Control Module (PCM).B
MAF & IAT Sensor
2 E-82
73 E-95
2 J-38
1 BLK
3 BLK
0.5 BLK
0.5 BLK
H-109
8
7 H-112
7 H-113
1 BLK
1 BLK
1 BLK
3 BLK
E-97
E-98
LNWJ80XF004801

4956707


Fuel Pump
Rear Manufacture Connector
Diode 2
License Plate Light.B
Rear Combination Light LH
Rear Combination Light RH
Condenser Fan Motor
Triple Pressure Switch
Fuel Pump Relay
Marker Light Relay
Back Buzzer
4 J-130
D J-118
1 J-114
1 J-72
6 J-73
6 J-74
1 J-4
2 J-55
5 X-22
5 X-26
2 J-111
0.5 BLK
0.5 BLK
1.25 BLK
1.25 BLK
1.25 BLK
7 H-66
0.85 BLK
1.25 BLK
0.85 BLK
0.85 BLK
0.85 BLK
0.85 BLK
0.75 BLK
W/S-1
Electronic Hydraulic Control Unit(EHCU)
1
13 J-22
3 BLK
3 BLK
3 BLK
3 BLK
2 BLK
3 WHT
3 BLK
3 BLK
2 BLK
3 BLK
J-10
J-8
J-12
J-7
J-11
J-9
LNWJ80XF004901

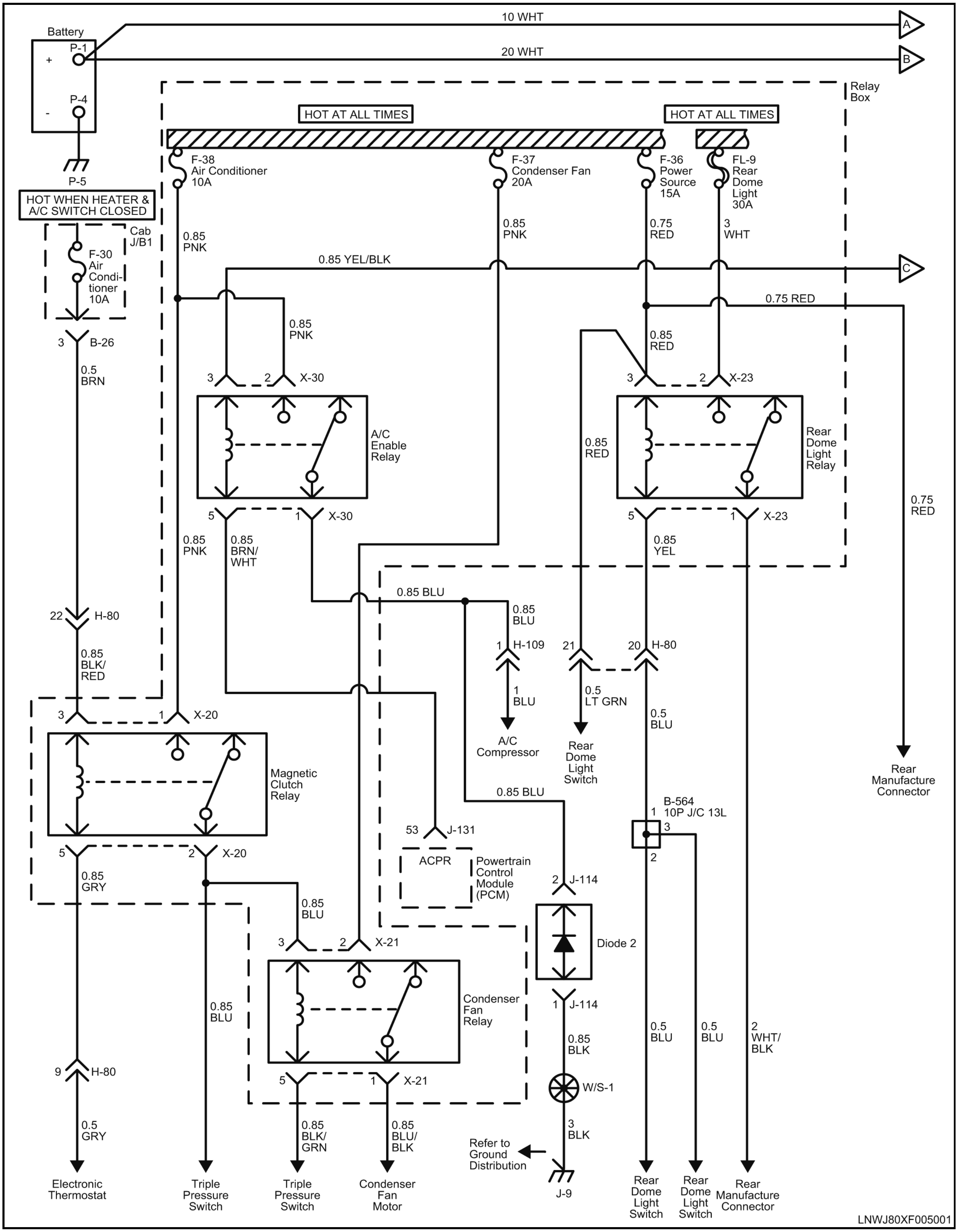
4956710

Heated Mirror Schematics


HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ON
Cab J/B1
F-28 Illuminations 10A
F-16 Mirror Heater 15A
Power Window Relay
10 B-18
8 B-22
5 B-20
1 B-23
21 B-22
8 B-17
0.85 BRN
0.85 WHT/RED
0.85 WHT/RED
0.5 RED/YEL
0.5 RED/YEL
0.5 RED/YEL
W/S-15L
0.5 BRN
8
6
1
3 B-174
Mirror Heater Switch
7
5
2
4 B-174
0.5 RED/YEL
8 H-92
9 H-87
0.5 LT GRN
0.5 GRY
0.5 RED/YEL
0.5 RED/YEL
W/S-14L
W/S-16L
1 D-42
Mirror Heater RH
2 D-42
1 D-40
Mirror Heater LH
2 D-40
0.5 LT GRN
2 BLK
0.5 BLK
0.5 BLK
1 H-87
9 H-92
Illumination Control Switch
0.5 BLK
0.5 BLK
W/S-10L
2 BLK
5
1
B-562 10P J/C 11L
7
10
4
B-48 J/C-EA 10P1
3BLK
8
10
5
B-49 J/C-EA 10P2
3 BLK
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
B-53
B-52
LNWJ80XF010701

4957923

Power Distribution Schematics (Chassis)


Battery
P-1
+
P-4
-
P-5
10 WHT
A
20 WHT
B
Relay Box
HOT AT ALL TIMES
HOT AT ALL TIMES
F-38 Air Conditioner 10A
F-37 Condenser Fan 20A
F-36 Power Source 15A
FL-9 Rear Dome Light 30A
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
0.85 PNK
0.85 PNK
0.75 RED
3 WHT
0.85 YEL/BLK
C
0.75 RED
0.85 PNK
0.85 RED
3 B-26
0.5 BRN
3 2 X-30
3 2 X-23
A/C Enable Relay
0.85 RED
Rear Dome Light Relay
0.75 RED
5 1 X-30
5 1 X-23
0.85 PNK
0.85 BRN/WHT
0.85 YEL
0.85 BLU
0.85 BLU
22 H-80
1 H-109
21
20 H-80
0.85 BLK/RED
1 BLU
0.5 LT GRN
0.5 BLU
3 1 X-20
A/C Compressor
Rear Dome Light Switch
Rear Manufacture Connector
Magnetic Clutch Relay
0.85 BLU
B-564 10P J/C 13L
1
3
2
53 J-131
ACPR
Powertrain Control Module (PCM)
5 2 X-20
0.85 GRY
2 J-114
0.85 BLU
Diode 2
3 2 X-21
Condenser Fan Relay
1 J-114
0.85 BLU
0.85 BLK
0.5 BLU
0.5 BLU
2 WHT/BLK
9 H-80
5 1 X-21
W/S-1
0.5 GRY
0.85 BLK/GRN
0.85 BLU/BLK
3 BLK
Refer to Ground Distribution
J-9
Electronic Thermostat
Triple Pressure Switch
Triple Pressure Switch
Condenser Fan Motor
Rear Dome Light Switch
Rear Dome Light Switch
Rear Manufacture Connector
LNWJ80XF005001

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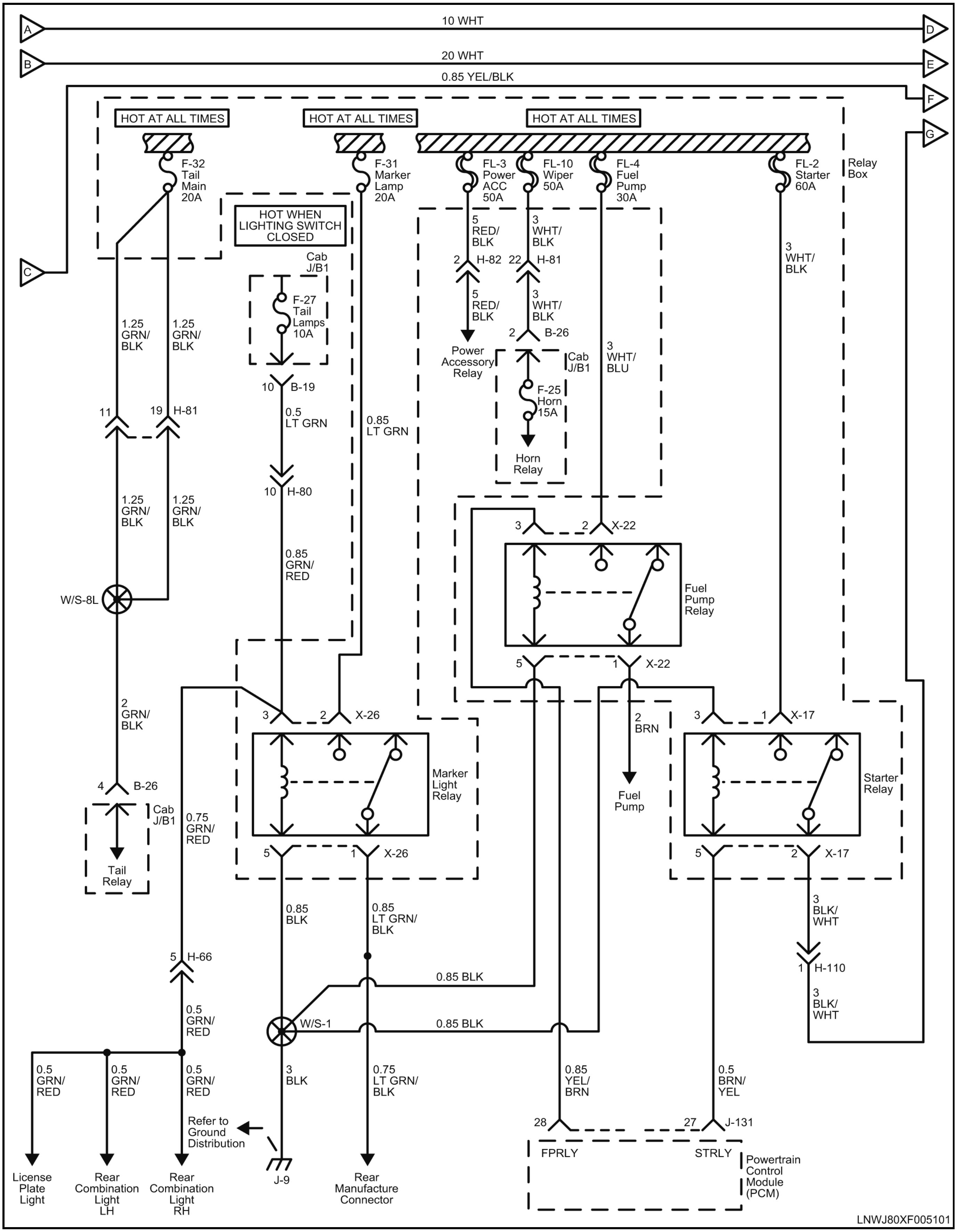
A
B
C
D
E
F
G
10 WHT
20 WHT
0.85 YEL/BLK
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
F-32 Tail Main 20A
F-31 Marker Lamp 20A
FL-3 Power ACC 50A
FL-10 Wiper 50A
FL-4 Fuel Pump 30A
FL-2 Starter 60A
Relay Box
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-27 Tail Lamps 10A
5 RED/ BLK
3 WHT/ BLK
2 H-82
22 H-81
5 RED/ BLK
3 WHT/ BLK
Power Accessory Relay
2 B-26
Cab J/B1
F-25 Horn 15A
Horn Relay
3 WHT/ BLU
3 WHT/ BLK
1.25 GRN/ BLK
1.25 GRN/ BLK
10 B-19
0.5 LT GRN
0.85 LT GRN
11
19 H-81
1.25 GRN/ BLK
1.25 GRN/ BLK
10 H-80
0.85 GRN/ RED
W/S-8L
3
2 X-22
Fuel Pump Relay
5
1 X-22
2 GRN/ BLK
3
2 X-26
Marker Light Relay
5
1 X-26
2 BRN
Fuel Pump
3
1 X-17
Starter Relay
5
2 X-17
4 B-26
Cab J/B1
Tail Relay
0.75 GRN/ RED
0.85 BLK
0.85 LT GRN/ BLK
3 BLK/ WHT
1 H-110
3 BLK/ WHT
5 H-66
0.5 GRN/ RED
0.85 BLK
W/S-1
0.85 BLK
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
3 BLK
0.75 LT GRN/ BLK
0.85 YEL/ BRN
0.5 BRN/ YEL
Refer to Ground Distribution
28
27 J-131
FPRLY
STRLY
Powertrain Control Module (PCM)
License Plate Light
Rear Combination Light LH
Rear Combination Light RH
J-9
Rear Manufacture Connector
LNWJ80XF005101

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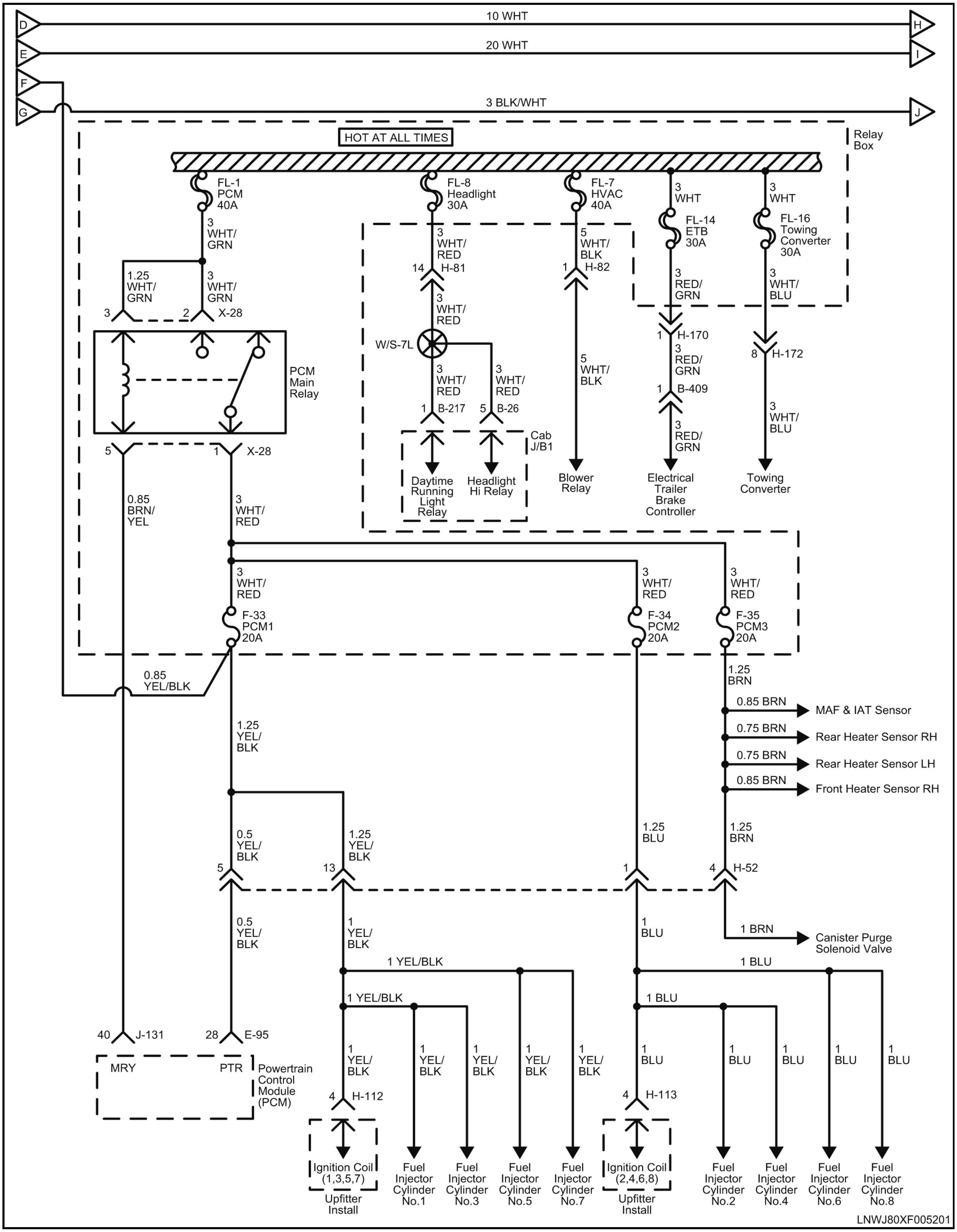
D
E
F
G
10 WHT
20 WHT
3 BLK/WHT
H
I
J
HOT AT ALL TIMES
Relay Box
FL-1 PCM 40A
FL-8 Headlight 30A
FL-7 HVAC 40A
3 WHT
FL-14 ETB 30A
3 WHT
FL-16 Towing Converter 30A
3 WHT/GRN
1.25 WHT/GRN
3 WHT/GRN
3
2
X-28
PCM Main Relay
5
1
X-28
3 WHT/RED
14
H-81
3 WHT/RED
W/S-7L
3 WHT/RED
3 WHT/RED
1
B-217
5
B-26
Cab J/B1
Daytime Running Light Relay
Headlight Hi Relay
5 WHT/BLK
1
H-82
5 WHT/BLK
Blower Relay
3 RED/GRN
1
H-170
3 RED/GRN
1
B-409
3 RED/GRN
Electrical Trailer Brake Controller
3 WHT/BLU
8
H-172
3 WHT/BLU
Towing Converter
0.85 BRN/YEL
3 WHT/RED
3 WHT/RED
3 WHT/RED
3 WHT/RED
F-33 PCM1 20A
F-34 PCM2 20A
F-35 PCM3 20A
0.85 YEL/BLK
1.25 BRN
0.85 BRN
MAF & IAT Sensor
0.75 BRN
Rear Heater Sensor RH
0.75 BRN
Rear Heater Sensor LH
0.85 BRN
Front Heater Sensor RH
1.25 YEL/BLK
0.5 YEL/BLK
1.25 YEL/BLK
1.25 BLU
1.25 BRN
5
13
1
4
H-52
0.5 YEL/BLK
1 YEL/BLK
1 BLU
1 BRN
Canister Purge Solenoid Valve
1 YEL/BLK
1 BLU
1 YEL/BLK
1 BLU
40
J-131
28
E-95
MRY
PTR
Powertrain Control Module (PCM)
1 YEL/BLK
1 YEL/BLK
1 YEL/BLK
1 YEL/BLK
1 YEL/BLK
4
H-112
1 BLU
1 BLU
1 BLU
1 BLU
1 BLU
4
H-113
Ignition Coil (1,3,5,7)
Upfitter Install
Fuel Injector Cylinder No.1
Fuel Injector Cylinder No.3
Fuel Injector Cylinder No.5
Fuel Injector Cylinder No.7
Ignition Coil (2,4,6,8)
Upfitter Install
Fuel Injector Cylinder No.2
Fuel Injector Cylinder No.4
Fuel Injector Cylinder No.6
Fuel Injector Cylinder No.8
LNWJ80XF005201

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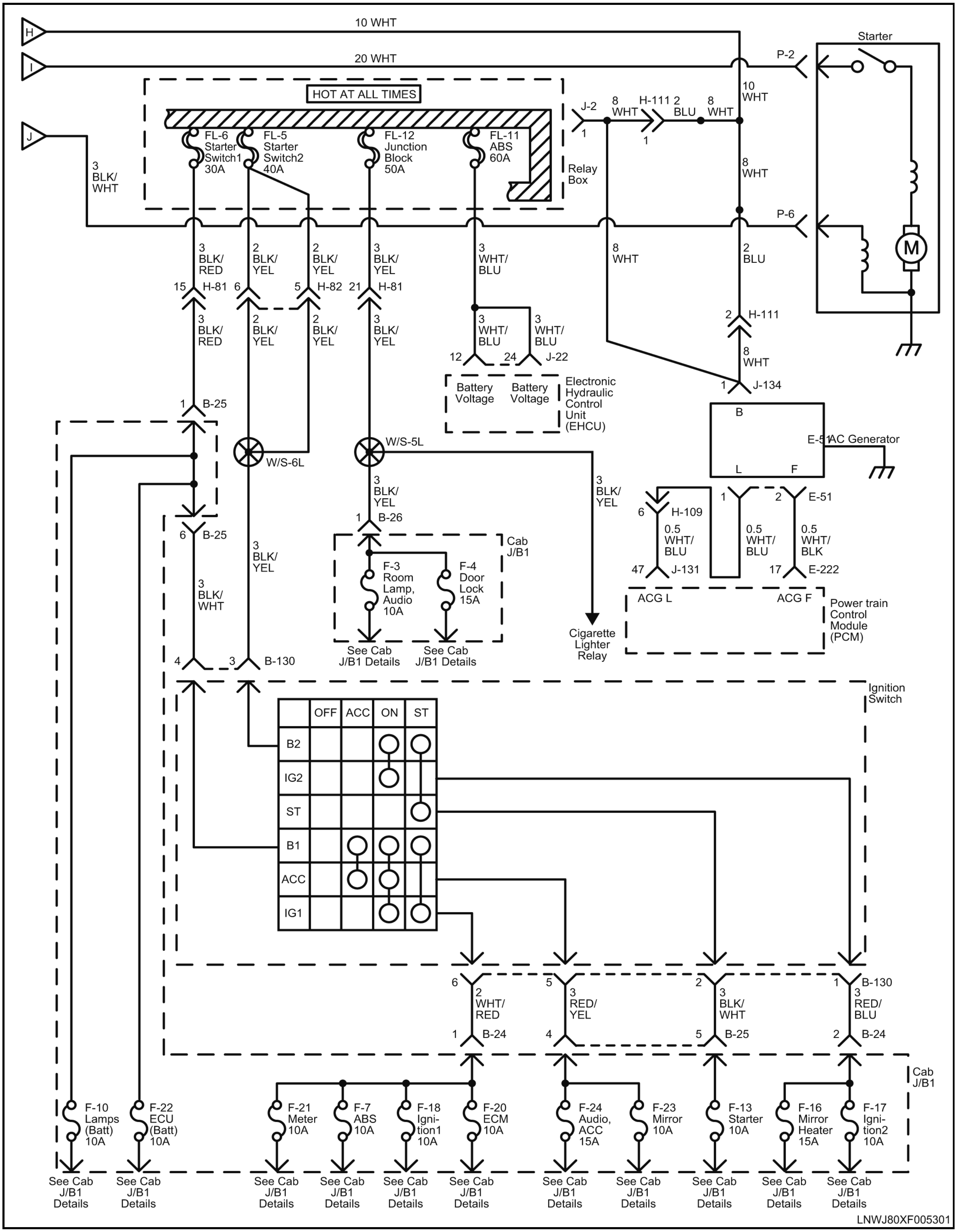
H
10 WHT
I
20 WHT
J
3 BLK/WHT
HOT AT ALL TIMES
FL-6 Starter Switch1 30A
FL-5 Starter Switch2 40A
FL-12 Junction Block 50A
FL-11 ABS 60A
Relay Box
J-2
1
8 WHT
H-111
1
2 BLU
8 WHT
10 WHT
P-2
Starter
8 WHT
P-6
M
3 BLK/RED
2 BLK/YEL
2 BLK/YEL
3 BLK/YEL
3 WHT/BLU
8 WHT
2 BLU
15
H-81
6
5
H-82
21
H-81
3 BLK/RED
2 BLK/YEL
2 BLK/YEL
3 BLK/YEL
3 WHT/BLU
3 WHT/BLU
12
24
J-22
2
H-111
8 WHT
Battery Voltage
Battery Voltage
Electronic Hydraulic Control Unit (EHCU)
1
J-134
B
E-51
AC Generator
L
F
1
B-25
W/S-6L
W/S-5L
3 BLK/YEL
3 BLK/YEL
1
B-26
6
H-109
1
2
E-51
0.5 WHT/BLU
0.5 WHT/BLU
0.5 WHT/BLK
47
J-131
17
E-222
ACG L
ACG F
Power train Control Module (PCM)
6
B-25
3 BLK/YEL
3 BLK/WHT
Cab J/B1
F-3 Room Lamp, Audio 10A
F-4 Door Lock 15A
See Cab J/B1 Details
See Cab J/B1 Details
Cigarette Lighter Relay
4
3
B-130
Ignition Switch
OFF
ACC
ON
ST
B2
IG2
ST
B1
ACC
IG1
6
2 WHT/RED
1
B-24
5
3 RED/YEL
4
2
3 BLK/WHT
5
B-25
1
B-130
3 RED/BLU
2
B-24
Cab J/B1
F-10 Lamps (Batt) 10A
F-22 ECU (Batt) 10A
F-21 Meter 10A
F-7 ABS 10A
F-18 Igni-tion1 10A
F-20 ECM 10A
F-24 Audio, ACC 15A
F-23 Mirror 10A
F-13 Starter 10A
F-16 Mirror Heater 15A
F-17 Igni-tion2 10A
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
LNWJ80XF005301

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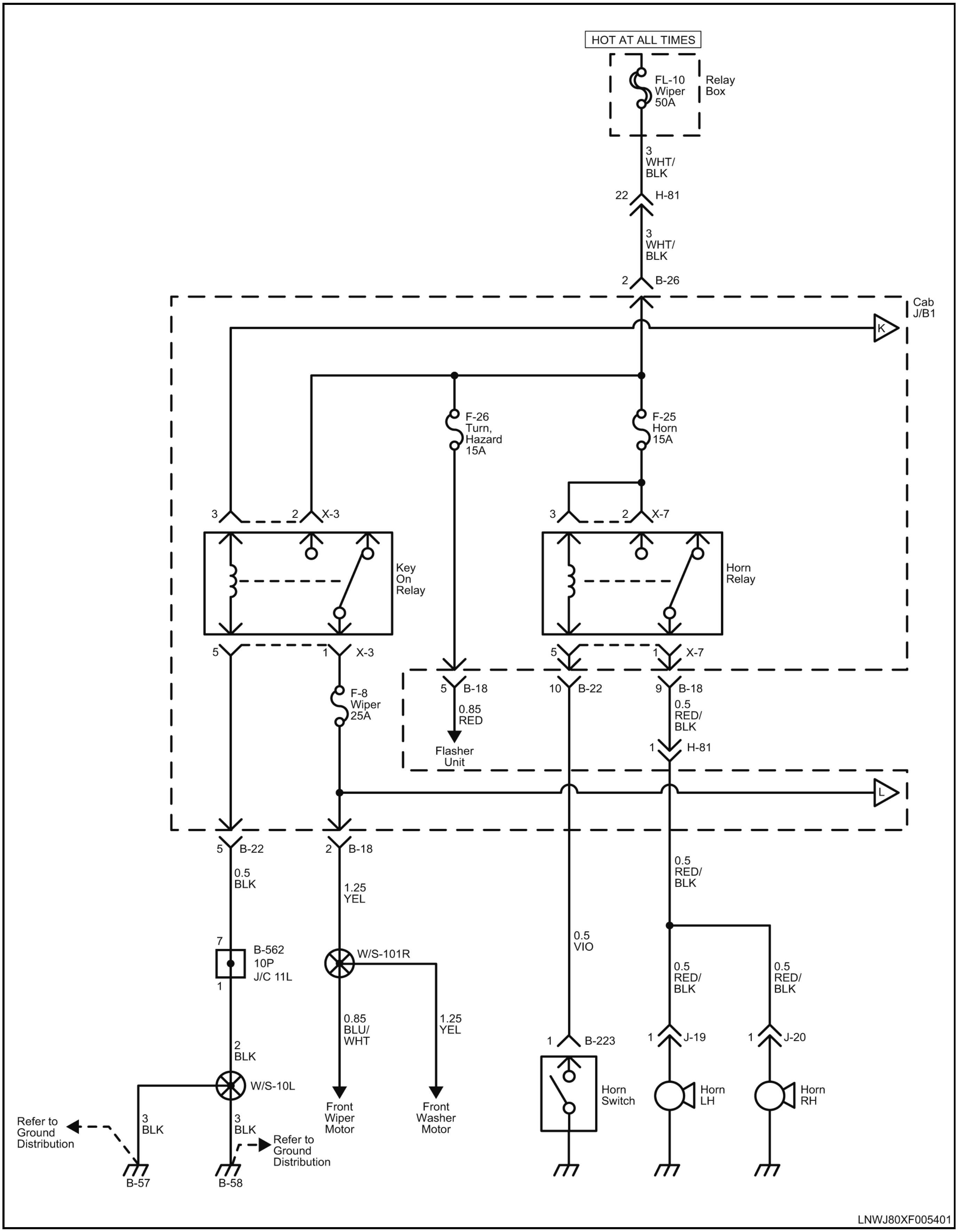
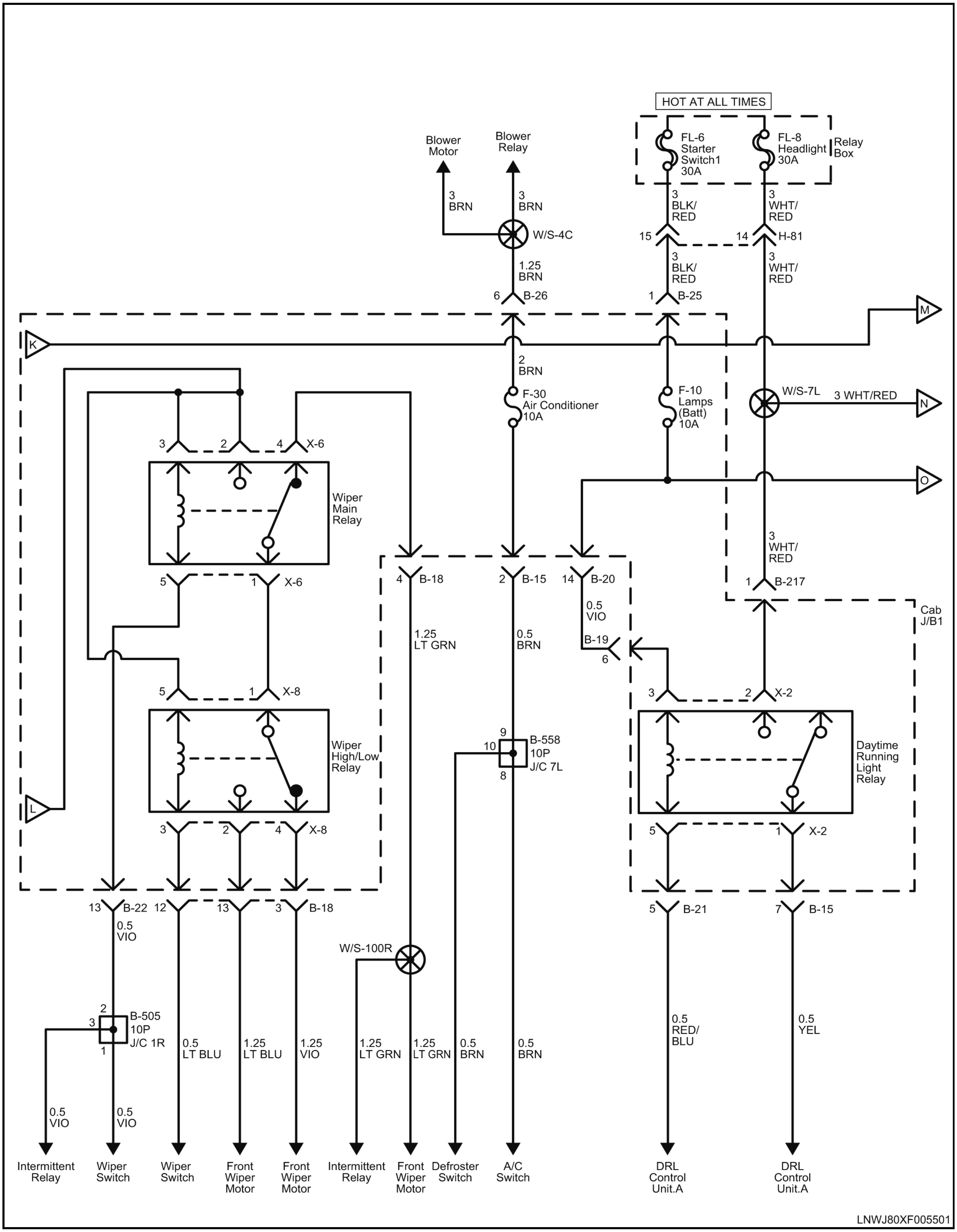
Power Distribution Schematics (Cab)


HOT AT ALL TIMES
FL-10
Wiper
50A
Relay
Box
3
WHT/
BLK
22
H-81
3
WHT/
BLK
2
B-26
Cab
J/B1
K
F-26
Turn,
Hazard
15A
F-25
Horn
15A
3
2
X-3
3
2
X-7
Key
On
Relay
Horn
Relay
5
1
X-3
5
1
X-7
F-8
Wiper
25A
5
B-18
0.85
RED
Flasher
Unit
10
B-22
9
B-18
0.5
RED/
BLK
1
H-81
L
5
B-22
2
B-18
0.5
BLK
1.25
YEL
0.5
RED/
BLK
7
B-562
10P
J/C 11L
1
W/S-101R
0.5
VIO
0.5
RED/
BLK
0.5
RED/
BLK
0.85
BLU/
WHT
1.25
YEL
2
BLK
1
B-223
1
J-19
1
J-20
W/S-10L
Horn
Switch
Horn
LH
Horn
RH
Front
Wiper
Motor
Front
Washer
Motor
Refer to
Ground
Distribution
3
BLK
3
BLK
Refer to
Ground
Distribution
B-57
B-58
LNWJ80XF005401

4956907


HOT AT ALL TIMES
FL-6 Starter Switch1 30A
FL-8 Headlight 30A
Relay Box
Blower Motor
Blower Relay
3 BRN
3 BRN
W/S-4C
1.25 BRN
6 B-26
3 BLK/RED
15
14 H-81
3 WHT/RED
3 BLK/RED
3 WHT/RED
1 B-25
M
K
2 BRN
F-30 Air Conditioner 10A
F-10 Lamps (Batt) 10A
W/S-7L
3 WHT/RED
N
O
3 2 4 X-6
Wiper Main Relay
5 1 X-6
4 B-18
2 B-15
14 B-20
3 WHT/RED
1 B-217
Cab J/B1
1.25 LT GRN
0.5 BRN
0.5 VIO
B-19
6
5 1 X-8
3 2 X-2
Wiper High/Low Relay
9
10 B-558 10P J/C 7L
8
Daytime Running Light Relay
L
3 2 4 X-8
5 1 X-2
13 B-22 12 13 3 B-18
5 B-21
7 B-15
0.5 VIO
W/S-100R
2
3 B-505 10P J/C 1R
1
0.5 LT BLU
1.25 LT BLU
1.25 VIO
1.25 LT GRN
1.25 LT GRN
0.5 BRN
0.5 BRN
0.5 RED/BLU
0.5 YEL
0.5 VIO
0.5 VIO
Intermittent Relay
Wiper Switch
Wiper Switch
Front Wiper Motor
Front Wiper Motor
Intermittent Relay
Front Wiper Motor
Defroster Switch
A/C Switch
DRL Control Unit.A
DRL Control Unit.A
LNWJ80XF005501

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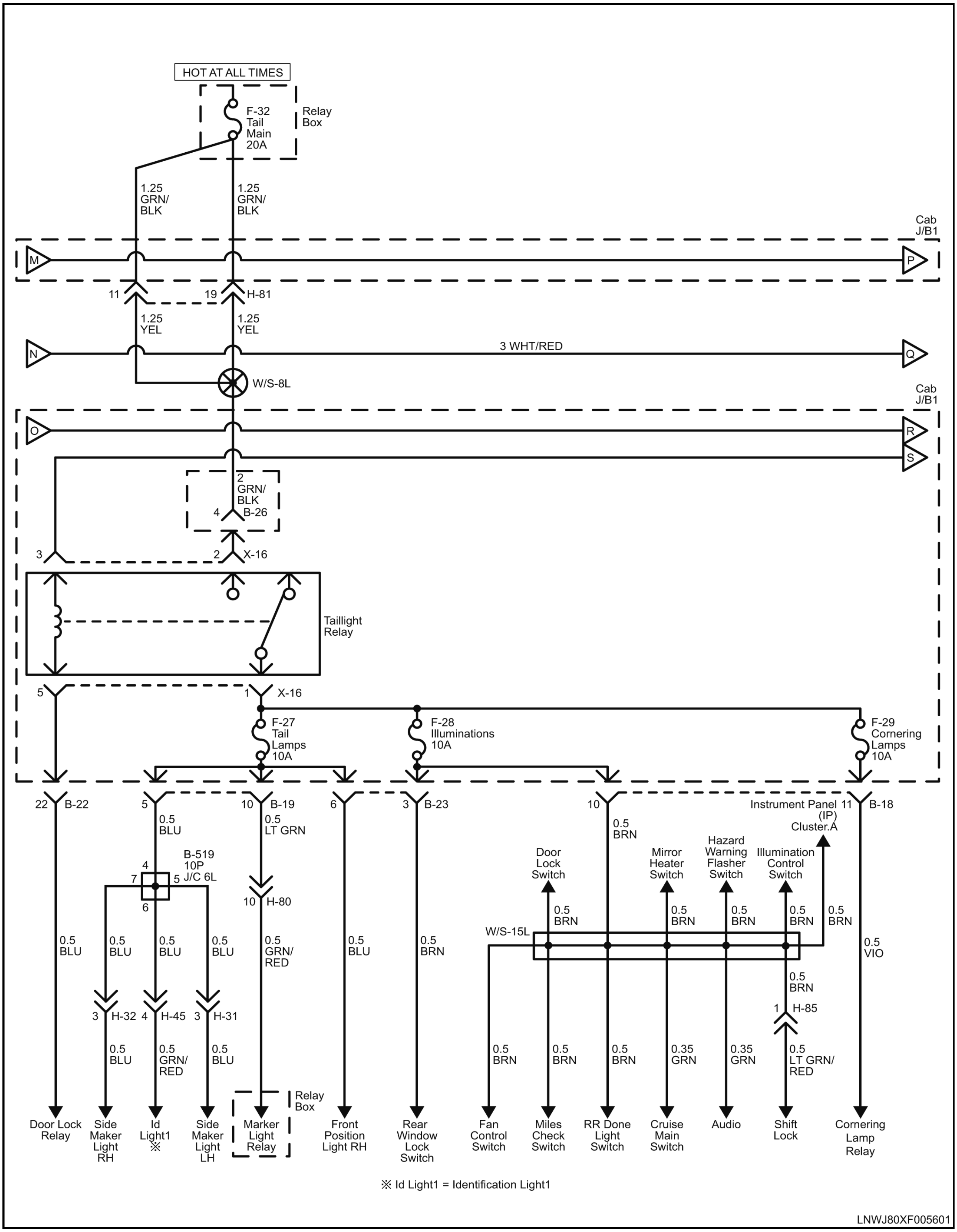
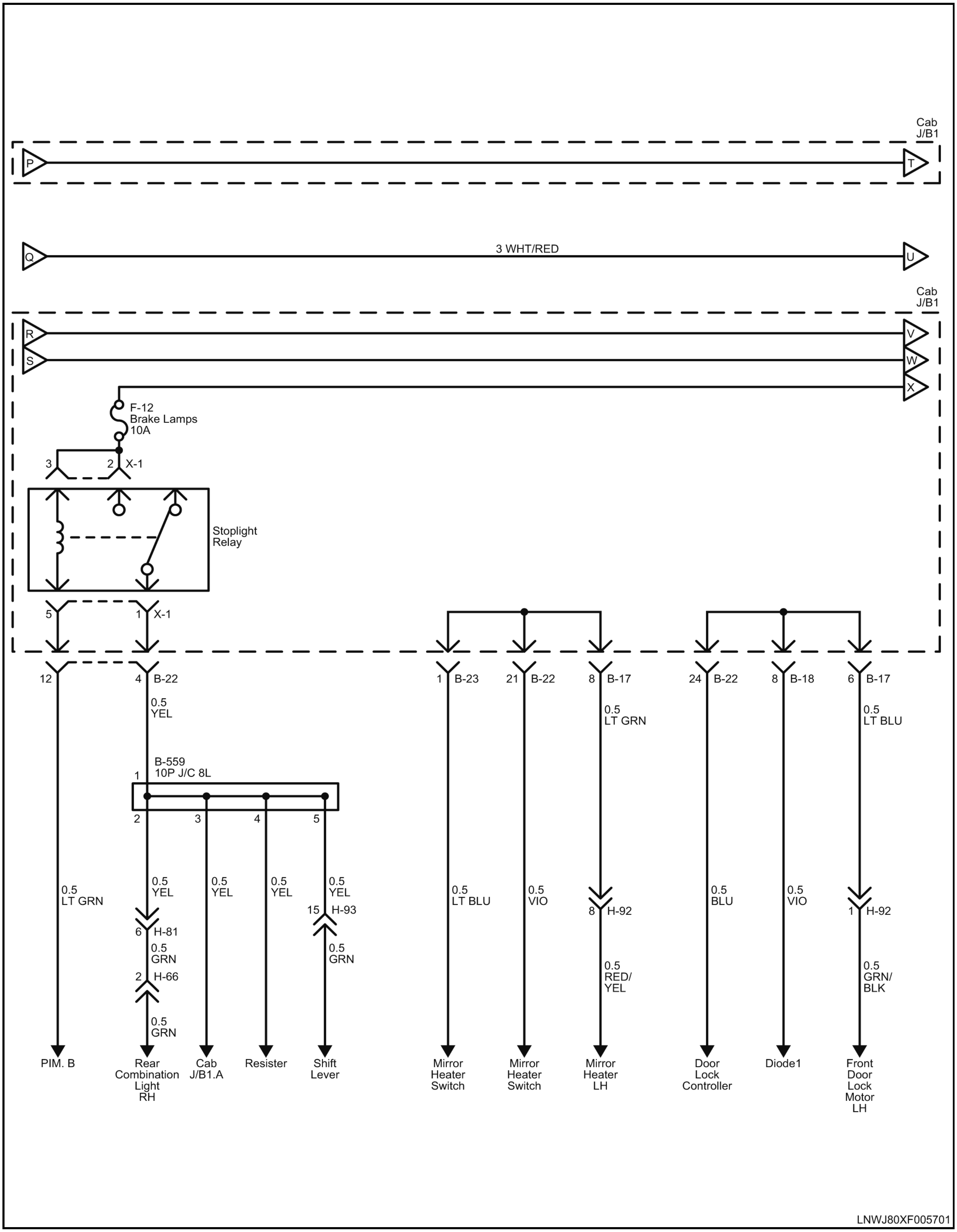

HOT AT ALL TIMES
F-32
Tail
Main
20A
Relay
Box
1.25
GRN/
BLK
1.25
GRN/
BLK
Cab
J/B1
M
P
11
19
H-81
1.25
YEL
1.25
YEL
N
3 WHT/RED
Q
W/S-8L
Cab
J/B1
O
R
S
2
GRN/
BLK
4
B-26
3
2
X-16
Taillight
Relay
5
1
X-16
F-27
Tail
Lamps
10A
F-28
Illuminations
10A
F-29
Cornering
Lamps
10A
22
B-22
5
10
B-19
6
3
B-23
10
Instrument Panel
(IP)
Cluster.A
11
B-18
0.5
BLU
0.5
LT GRN
0.5
BRN
B-519
10P
J/C 6L
4
7
5
6
10
H-80
Door
Lock
Switch
Mirror
Heater
Switch
Hazard
Warning
Flasher
Switch
Illumination
Control
Switch
0.5
BLU
0.5
BLU
0.5
BLU
0.5
BLU
0.5
GRN/
RED
0.5
BLU
0.5
BRN
W/S-15L
0.5
BRN
0.5
BRN
0.5
BRN
0.5
BRN
0.5
BRN
0.5
VIO
0.5
BRN
3
H-32
4
H-45
3
H-31
1
H-85
0.5
BLU
0.5
GRN/
RED
0.5
BLU
Relay
Box
0.5
BRN
0.5
BRN
0.5
BRN
0.35
GRN
0.35
GRN
0.5
LT GRN/
RED
Door Lock
Relay
Side
Maker
Light
RH
Id
Light1
※
Side
Maker
Light
LH
Marker
Light
Relay
Front
Position
Light RH
Rear
Window
Lock
Switch
Fan
Control
Switch
Miles
Check
Switch
RR Done
Light
Switch
Cruise
Main
Switch
Audio
Shift
Lock
Cornering
Lamp
Relay
LNWJ80XF005601

※ Id Light1 = Identification Light1

4956915


Cab J/B1
P
T
Q
3 WHT/RED
U
Cab J/B1
R
V
S
W
X
F-12
Brake Lamps
10A
3
2
X-1
Stoplight Relay
5
1
X-1
12
4
B-22
0.5 YEL
B-559
10P J/C 8L
1
2
3
4
5
0.5 LT GRN
0.5 YEL
6 H-81
0.5 GRN
2 H-66
0.5 GRN
0.5 YEL
0.5 YEL
0.5 YEL
15 H-93
0.5 GRN
PIM. B
Rear Combination Light RH
Cab J/B1.A
Resister
Shift Lever
1 B-23
21 B-22
8 B-17
0.5 LT GRN
0.5 LT BLU
0.5 VIO
8 H-92
0.5 RED/YEL
Mirror Heater Switch
Mirror Heater Switch
Mirror Heater LH
24 B-22
8 B-18
6 B-17
0.5 LT BLU
0.5 BLU
0.5 VIO
1 H-92
0.5 GRN/BLK
Door Lock Controller
Diode1
Front Door Lock Motor LH
LNWJ80XF005701

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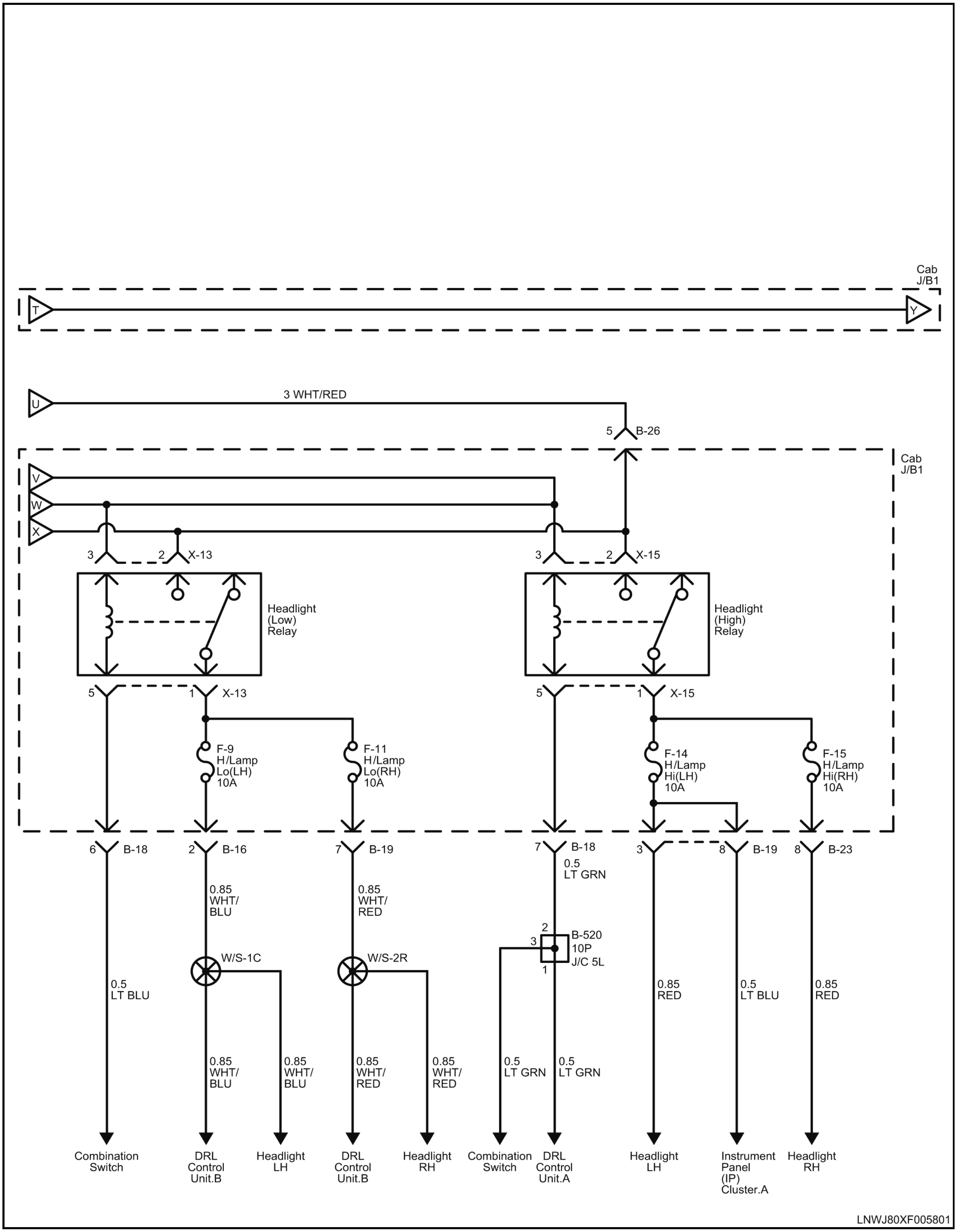
Cab J/B1
T
Y
U
3 WHT/RED
5 B-26
Cab J/B1
V
W
X
3
2 X-13
3
2 X-15
Headlight (Low) Relay
Headlight (High) Relay
5
1 X-13
5
1 X-15
F-9 H/Lamp Lo(LH) 10A
F-11 H/Lamp Lo(RH) 10A
F-14 H/Lamp Hi(LH) 10A
F-15 H/Lamp Hi(RH) 10A
6 B-18
2 B-16
7 B-19
7 B-18
3
8 B-19
8 B-23
0.5 LT GRN
0.85 WHT/ BLU
0.85 WHT/ RED
2
3
B-520 10P J/C 5L
1
W/S-1C
W/S-2R
0.5 LT BLU
0.85 RED
0.5 LT BLU
0.85 RED
0.85 WHT/ BLU
0.85 WHT/ BLU
0.85 WHT/ RED
0.85 WHT/ RED
0.5 LT GRN
0.5 LT GRN
Combination Switch
DRL Control Unit.B
Headlight LH
DRL Control Unit.B
Headlight RH
Combination Switch
DRL Control Unit.A
Headlight LH
Instrument Panel (IP) Cluster.A
Headlight RH
LNWJ80XF005801

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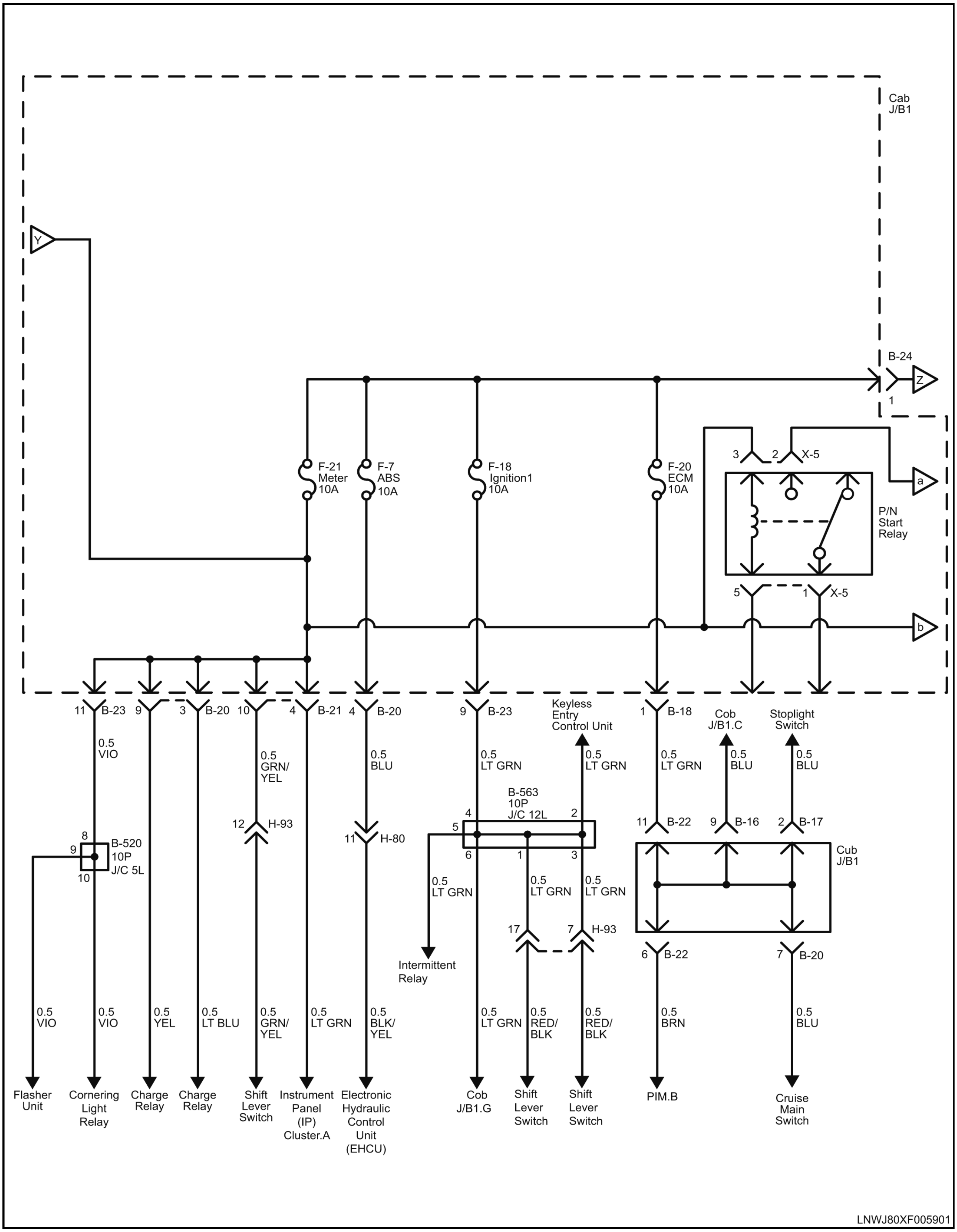
Cab J/B1
Y
B-24
Z
1
F-21 Meter 10A
F-7 ABS 10A
F-18 Ignition1 10A
F-20 ECM 10A
3
2
X-5
a
P/N Start Relay
5
1
X-5
b
11 B-23
9
3 B-20
10
4 B-21
4 B-20
9 B-23
Keyless Entry Control Unit
1 B-18
Cob J/B1.C
Stoplight Switch
0.5 VIO
0.5 GRN/ YEL
0.5 BLU
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 BLU
0.5 BLU
B-563 10P J/C 12L
4
2
5
6
1
3
12 H-93
11 H-80
11 B-22
9 B-16
2 B-17
Cub J/B1
8
9
B-520 10P J/C 5L
10
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
17
7 H-93
Intermittent Relay
6 B-22
7 B-20
0.5 VIO
0.5 VIO
0.5 YEL
0.5 LT BLU
0.5 GRN/ YEL
0.5 LT GRN
0.5 BLK/ YEL
0.5 LT GRN
0.5 RED/ BLK
0.5 RED/ BLK
0.5 BRN
0.5 BLU
Flasher Unit
Cornering Light Relay
Charge Relay
Charge Relay
Shift Lever Switch
Instrument Panel (IP) Cluster.A
Electronic Hydraulic Control Unit (EHCU)
Cob J/B1.G
Shift Lever Switch
Shift Lever Switch
PIM.B
Cruise Main Switch
LNWJ80XF005901

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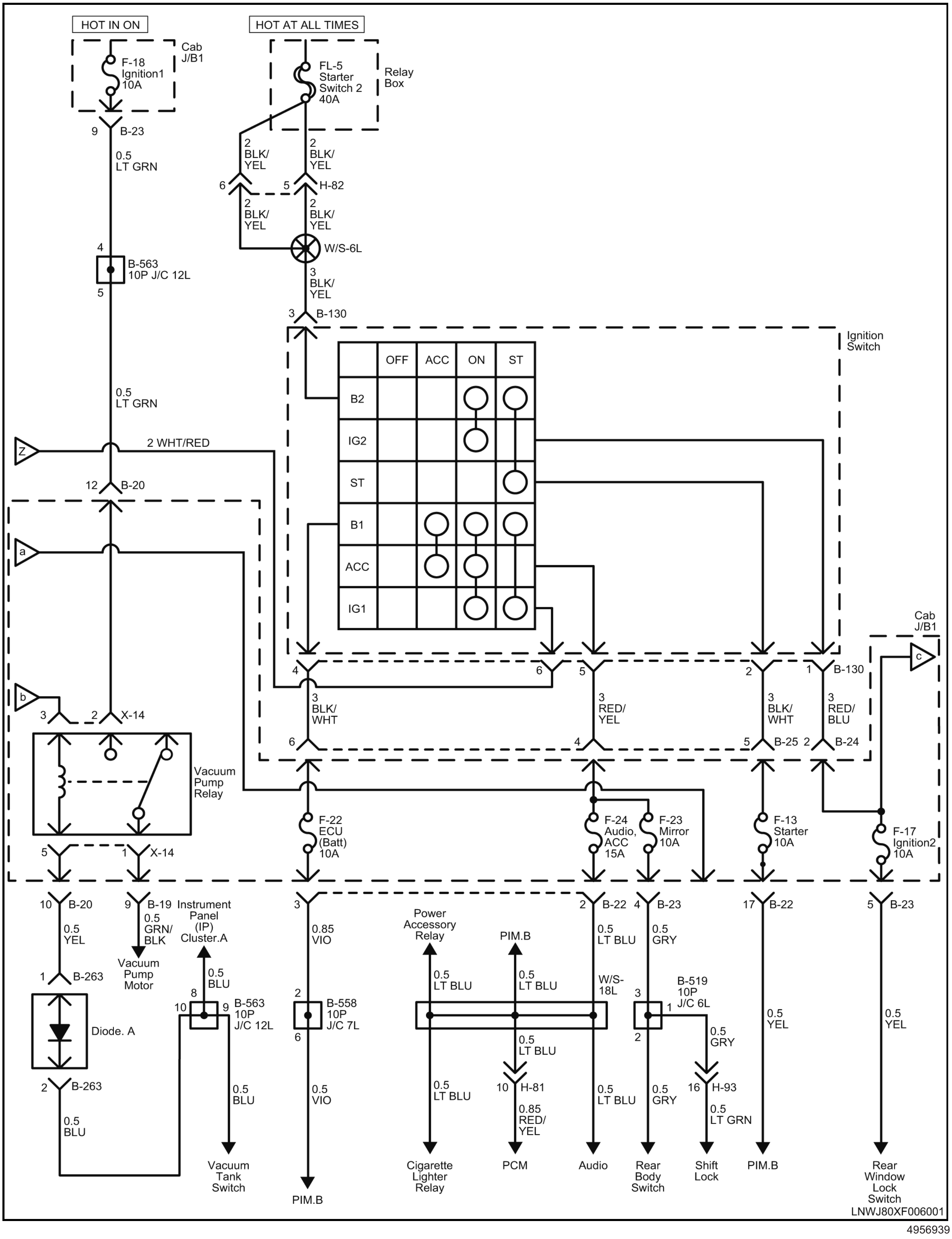
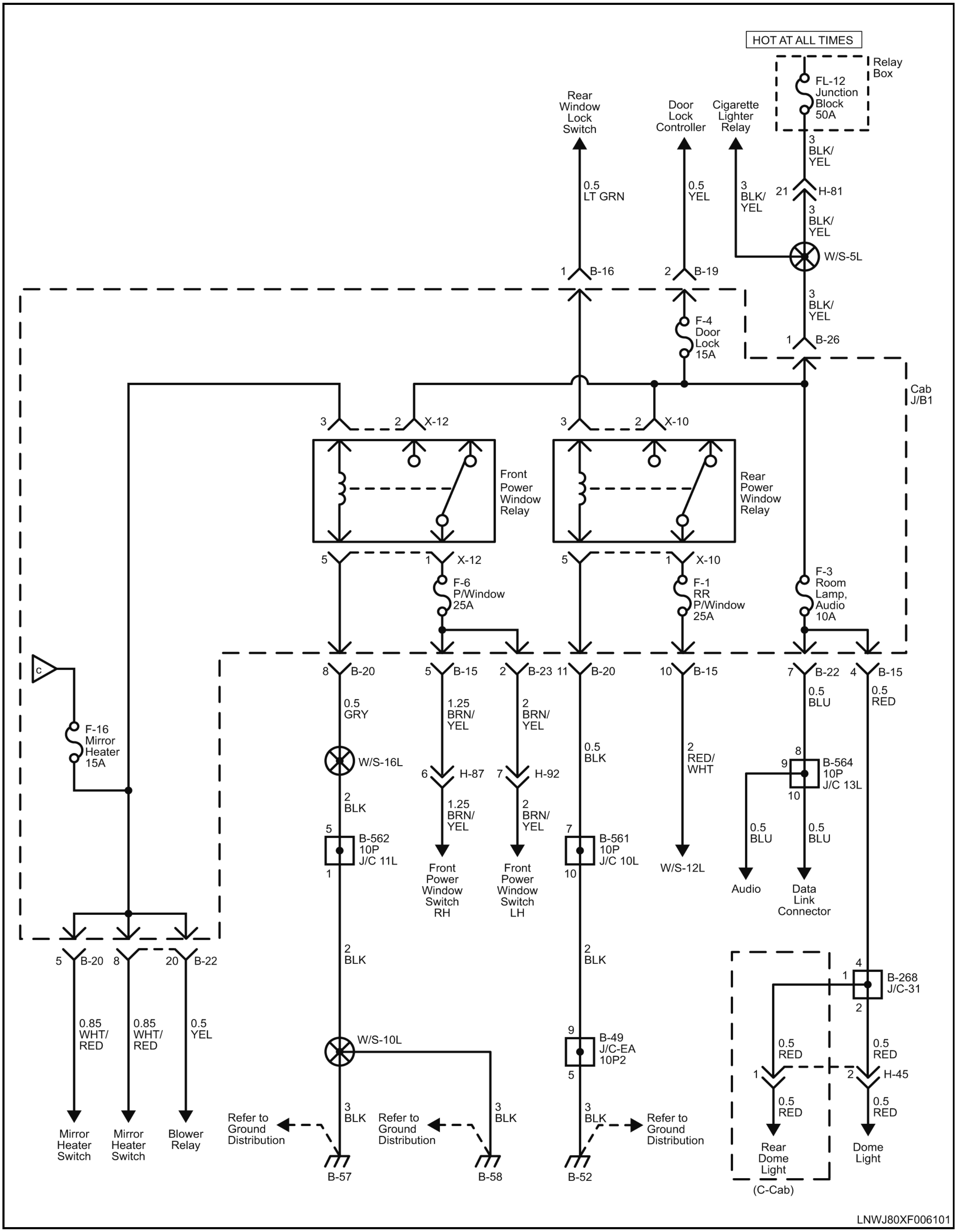

HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-18 Ignition1 10A
FL-5 Starter Switch 2 40A
Relay Box
9 B-23
0.5 LT GRN
2 BLK/YEL
2 BLK/YEL
6
5 H-82
2 BLK/YEL
2 BLK/YEL
W/S-6L
4
B-563 10P J/C 12L
5
3 BLK/YEL
3 B-130
Ignition Switch
OFF
ACC
ON
ST
B2
IG2
ST
B1
ACC
IG1
0.5 LT GRN
Z
2 WHT/RED
12 B-20
a
b
3
2 X-14
Vacuum Pump Relay
5
1 X-14
4
6
5
2
1 B-130
3 BLK/WHT
3 RED/YEL
3 BLK/WHT
3 RED/BLU
6
4
5 B-25
2 B-24
Cab J/B1
c
F-22 ECU (Batt) 10A
F-24 Audio, ACC 15A
F-23 Mirror 10A
F-13 Starter 10A
F-17 Ignition2 10A
10 B-20
9 B-19
Instrument Panel (IP) Cluster.A
3
2 B-22
4 B-23
17 B-22
5 B-23
0.5 YEL
0.5 GRN/BLK
Vacuum Pump Motor
0.85 VIO
Power Accessory Relay
PIM.B
0.5 LT BLU
0.5 GRY
1 B-263
Diode. A
0.5 BLU
8
10
9
B-563 10P J/C 12L
2
B-558 10P J/C 7L
6
0.5 LT BLU
0.5 LT BLU
W/S-18L
3
1
B-519 10P J/C 6L
2
0.5 YEL
0.5 YEL
0.5 LT BLU
0.5 GRY
2 B-263
0.5 BLU
0.5 BLU
0.5 VIO
0.5 LT BLU
10 H-81
0.85 RED/YEL
0.5 LT BLU
0.5 GRY
16 H-93
0.5 LT GRN
Vacuum Tank Switch
PIM.B
Cigarette Lighter Relay
PCM
Audio
Rear Body Switch
Shift Lock
PIM.B
Rear Window Lock Switch
LNWJ80XF006001
4956939


HOT AT ALL TIMES
Relay Box
FL-12 Junction Block 50A
3 BLK/ YEL
21
H-81
3 BLK/ YEL
W/S-5L
3 BLK/ YEL
1 B-26
Cigarette Lighter Relay
3 BLK/ YEL
Rear Window Lock Switch
0.5 LT GRN
1 B-16
Door Lock Controller
0.5 YEL
2 B-19
F-4 Door Lock 15A
Cab J/B1
3
2 X-12
3
2 X-10
Front Power Window Relay
Rear Power Window Relay
5
1 X-12
F-6 P/Window 25A
5
1 X-10
F-1 RR P/Window 25A
F-3 Room Lamp, Audio 10A
c
F-16 Mirror Heater 15A
8 B-20
0.5 GRY
W/S-16L
2 BLK
5
B-562 10P J/C 11L
1
5 B-15
1.25 BRN/ YEL
6 H-87
1.25 BRN/ YEL
Front Power Window Switch RH
2 B-23
2 BRN/ YEL
7 H-92
2 BRN/ YEL
Front Power Window Switch LH
11 B-20
0.5 BLK
7
B-561 10P J/C 10L
10
10 B-15
2 RED/ WHT
W/S-12L
7 B-22
0.5 BLU
8
9
B-564 10P J/C 13L
10
0.5 BLU
Audio
0.5 BLU
Data Link Connector
4 B-15
0.5 RED
5 B-20
8
20 B-22
0.85 WHT/ RED
Mirror Heater Switch
0.85 WHT/ RED
Mirror Heater Switch
0.5 YEL
Blower Relay
2 BLK
W/S-10L
3 BLK
Refer to Ground Distribution
B-57
3 BLK
Refer to Ground Distribution
B-58
2 BLK
9
B-49 J/C-EA 10P2
5
3 BLK
Refer to Ground Distribution
B-52
4
1
B-268 J/C-31
2
0.5 RED
1
0.5 RED
Rear Dome Light
(C-Cab)
0.5 RED
2 H-45
0.5 RED
Dome Light
LNWJ80XF006101

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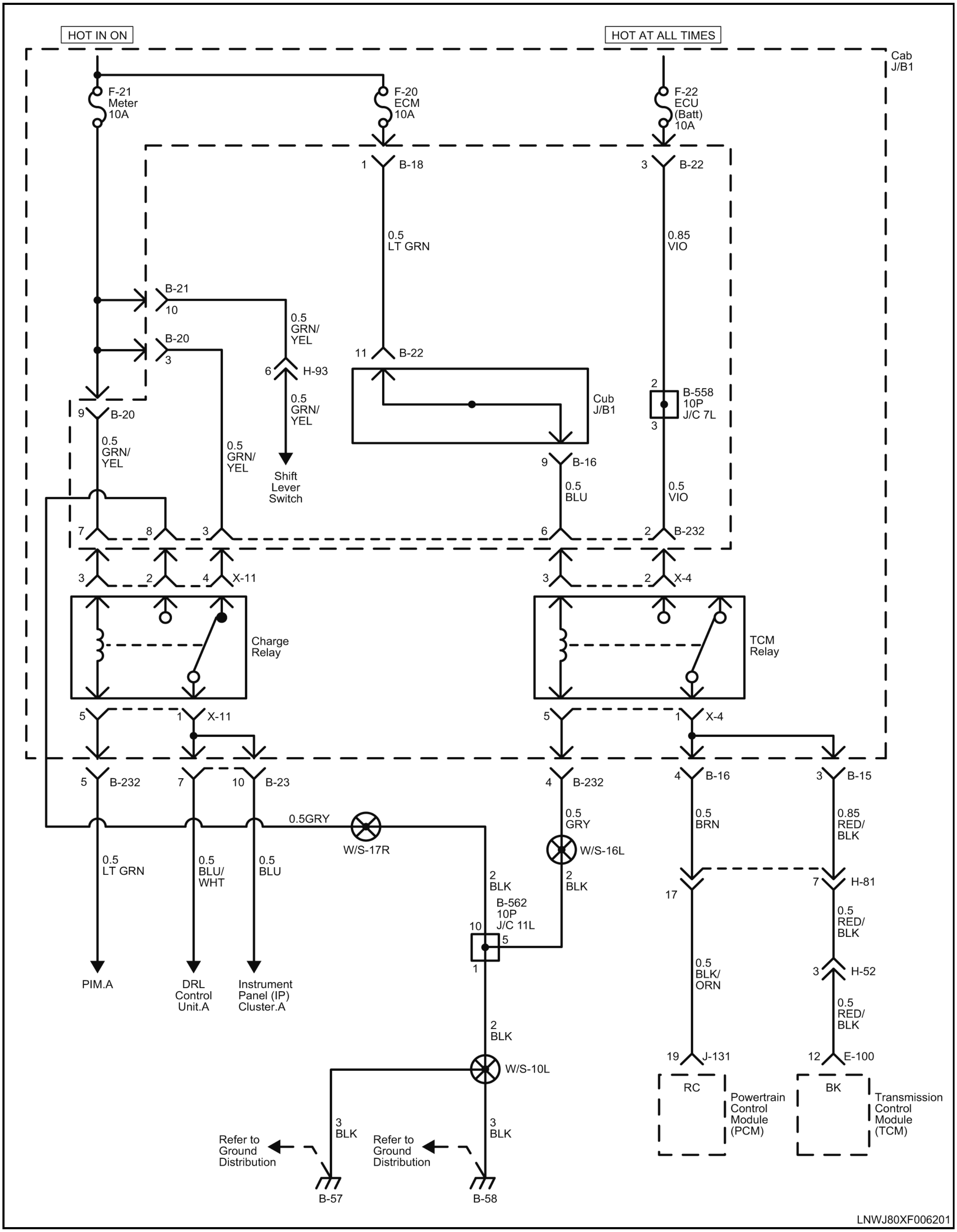
HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-21 Meter 10A
F-20 ECM 10A
F-22 ECU (Batt) 10A
1 B-18
3 B-22
0.5 LT GRN
0.85 VIO
B-21 10
0.5 GRN/ YEL
B-20 3
6 H-93
0.5 GRN/ YEL
Shift Lever Switch
11 B-22
Cub J/B1
2 B-558 10P J/C 7L 3
9 B-20
0.5 GRN/ YEL
0.5 GRN/ YEL
9 B-16
0.5 BLU
0.5 VIO
7 8 3
6
2 B-232
3 2 4 X-11
3 2 X-4
Charge Relay
TCM Relay
5 1 X-11
5 1 X-4
5 B-232
7 10 B-23
4 B-232
4 B-16
3 B-15
0.5GRY
W/S-17R
0.5 GRY
W/S-16L
0.5 BRN
0.85 RED/ BLK
0.5 LT GRN
0.5 BLU/ WHT
0.5 BLU
2 BLK
2 BLK
B-562 10P J/C 11L
10 5 1
17
7 H-81
0.5 RED/ BLK
0.5 BLK/ ORN
3 H-52
0.5 RED/ BLK
PIM.A
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
2 BLK
W/S-10L
19 J-131
12 E-100
RC
Powertrain Control Module (PCM)
BK
Transmission Control Module (TCM)
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
LNWJ80XF006201

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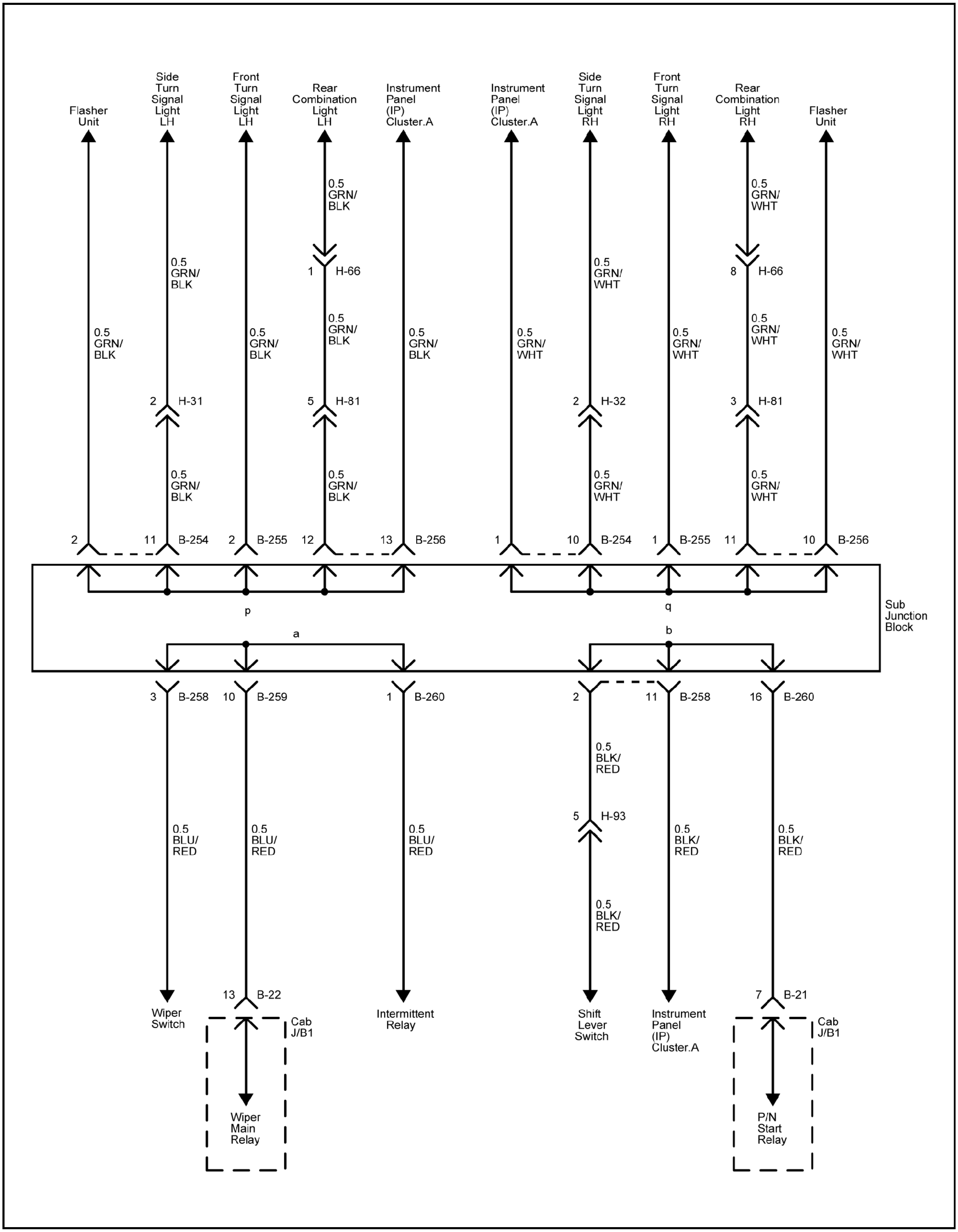
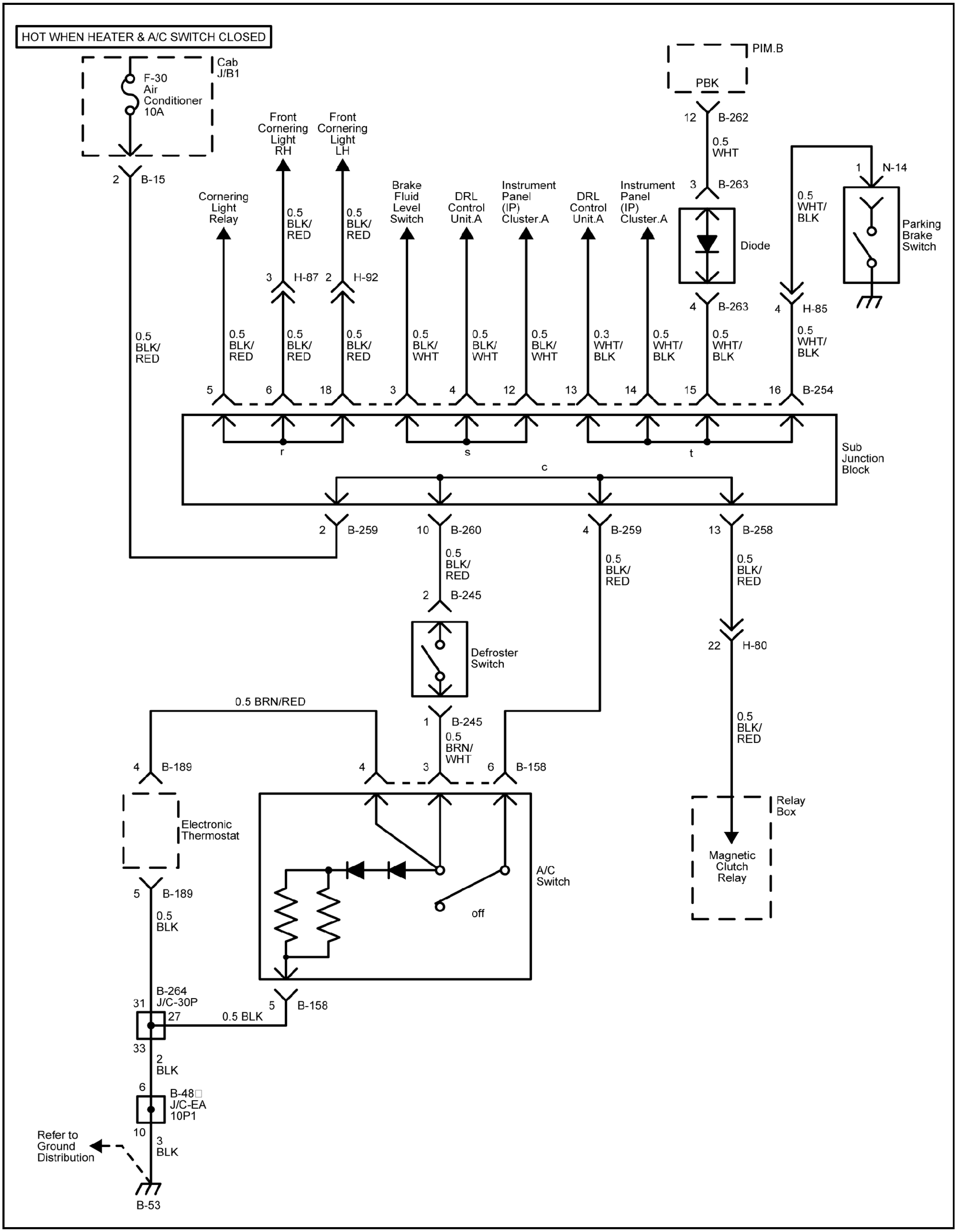
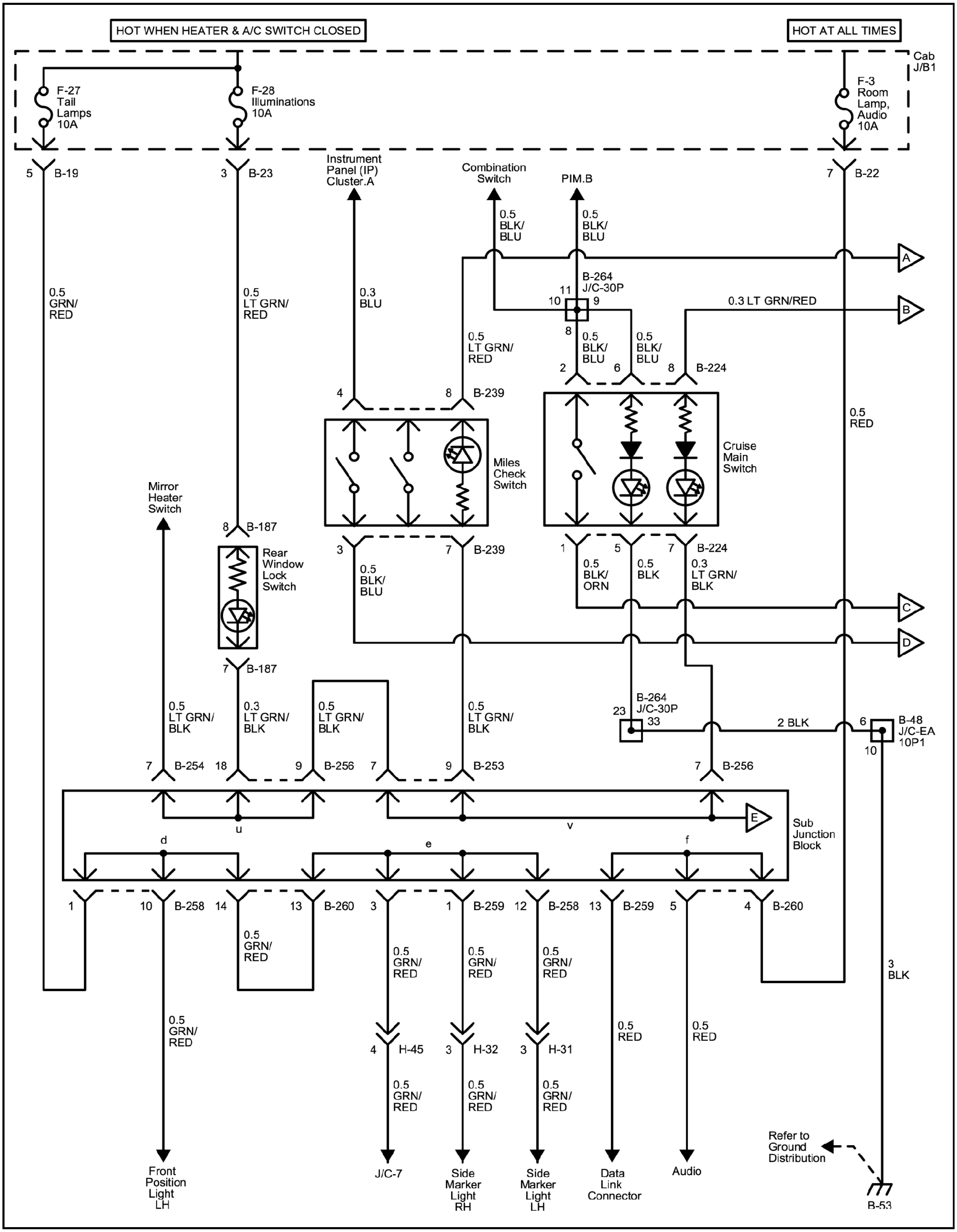
Sub Junction Block Schematics


Flasher Unit
Side Turn Signal Light LH
Front Turn Signal Light LH
Rear Combination Light LH
Instrument Panel (IP) Cluster.A
Instrument Panel (IP) Cluster.A
Side Turn Signal Light RH
Front Turn Signal Light RH
Rear Combination Light RH
Flasher Unit
0.5 GRN/BLK
0.5 GRN/WHT
0.5 BLK/RED
0.5 BLU/RED
1 H-66
8 H-66
2 H-31
5 H-81
2 H-32
3 H-81
2 11 B-254
2 B-255
12 13 B-256
1 10 B-254
1 B-255
11 10 B-256
p
q
a
b
Sub Junction Block
3 B-258
10 B-259
1 B-260
2 11 B-258
16 B-260
5 H-93
13 B-22
7 B-21
Wiper Switch
Cab J/B1
Wiper Main Relay
Intermittent Relay
Shift Lever Switch
Instrument Panel (IP) Cluster.A
Cab J/B1
P/N Start Relay

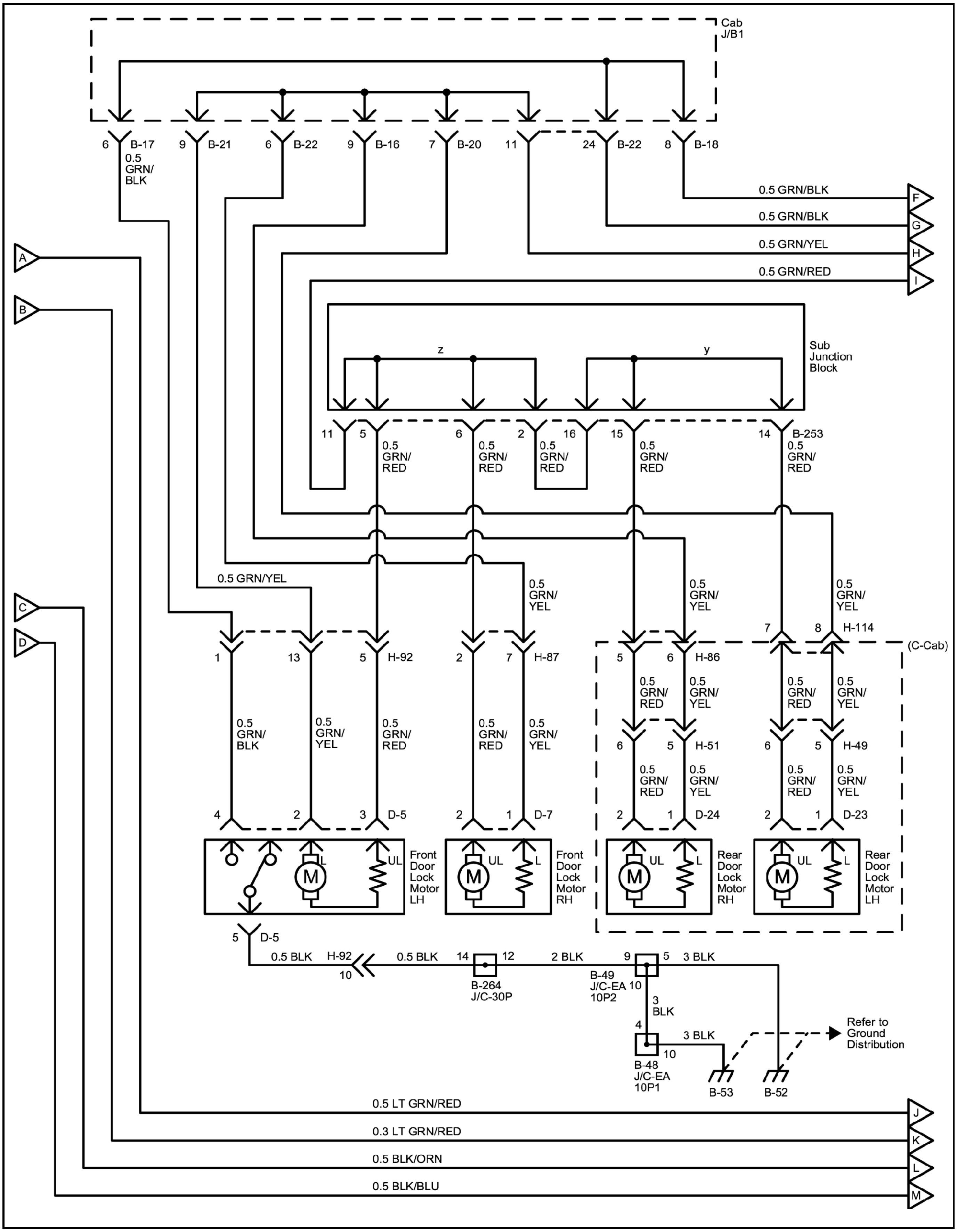
4557692


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
2 B-15
0.5 BLK/RED
PIM.B
PBK
12 B-262
0.5 WHT
3 B-263
Diode
4 B-263
0.5 WHT/BLK
1 N-14
Parking Brake Switch
0.5 WHT/BLK
4 H-85
0.5 WHT/BLK
Cornering Light Relay
Front Cornering Light RH
Front Cornering Light LH
0.5 BLK/RED
0.5 BLK/RED
3 H-87
2 H-92
Brake Fluid Level Switch
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
0.5 BLK/RED
0.5 BLK/RED
0.5 BLK/RED
0.5 BLK/WHT
0.5 BLK/WHT
0.5 BLK/WHT
0.3 WHT/BLK
0.5 WHT/BLK
0.5 WHT/BLK
5
6
18
3
4
12
13
14
15
16 B-254
r
s
t
c
Sub Junction Block
2 B-259
10 B-260
4 B-259
13 B-258
0.5 BLK/RED
2 B-245
Defroster Switch
1 B-245
0.5 BRN/WHT
0.5 BLK/RED
0.5 BLK/RED
22 H-80
0.5 BLK/RED
0.5 BRN/RED
4 B-189
Electronic Thermostat
5 B-189
0.5 BLK
4
3
6 B-158
A/C Switch
off
5 B-158
B-264 J/C-30P
31
27
0.5 BLK
33
2 BLK
6
B-48 J/C-EA 10P1
10
3 BLK
Refer to Ground Distribution
B-53
Relay Box
Magnetic Clutch Relay

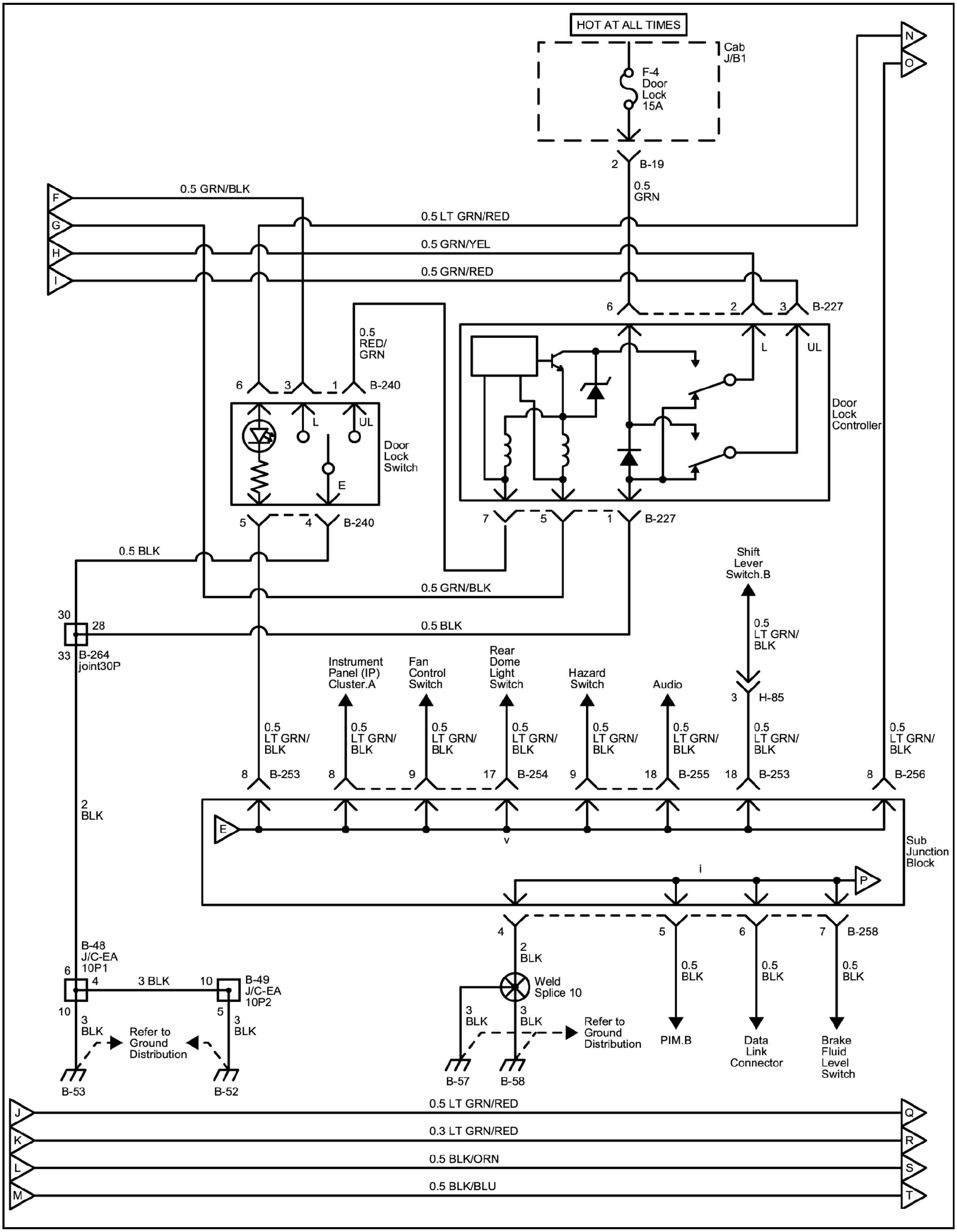
4557693


HOT WHEN HEATER & A/C SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-27 Tail Lamps 10A
F-28 Illuminations 10A
F-3 Room Lamp, Audio 10A
5 B-19
3 B-23
7 B-22
Instrument Panel (IP) Cluster.A
Combination Switch
PIM.B
0.5 BLK/ BLU
0.5 BLK/ BLU
A
B-264 J/C-30P
11
10
9
8
0.3 LT GRN/RED
B
0.5 GRN/ RED
0.5 LT GRN/ RED
0.3 BLU
0.5 LT GRN/ RED
0.5 BLK/ BLU
0.5 BLK/ BLU
2
6
8 B-224
4
8 B-239
0.5 RED
Miles Check Switch
Cruise Main Switch
Mirror Heater Switch
8 B-187
Rear Window Lock Switch
3
7 B-239
0.5 BLK/ BLU
1
5
7 B-224
0.5 BLK/ ORN
0.5 BLK
0.3 LT GRN/ BLK
C
D
7 B-187
B-264 J/C-30P
23
33
2 BLK
6
B-48 J/C-EA 10P1
10
0.5 LT GRN/ BLK
0.3 LT GRN/ BLK
0.5 LT GRN/ BLK
0.5 LT GRN/ BLK
7 B-254
18
9 B-256
7
9 B-253
7 B-256
u
v
E
Sub Junction Block
d
e
f
1
10 B-258
14
13 B-260
3
1 B-259
12 B-258
13 B-259
5
4 B-260
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
3 BLK
0.5 GRN/ RED
0.5 RED
0.5 RED
4 H-45
3 H-32
3 H-31
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
Refer to Ground Distribution
Front Position Light LH
J/C-7
Side Marker Light RH
Side Marker Light LH
Data Link Connector
Audio
B-53

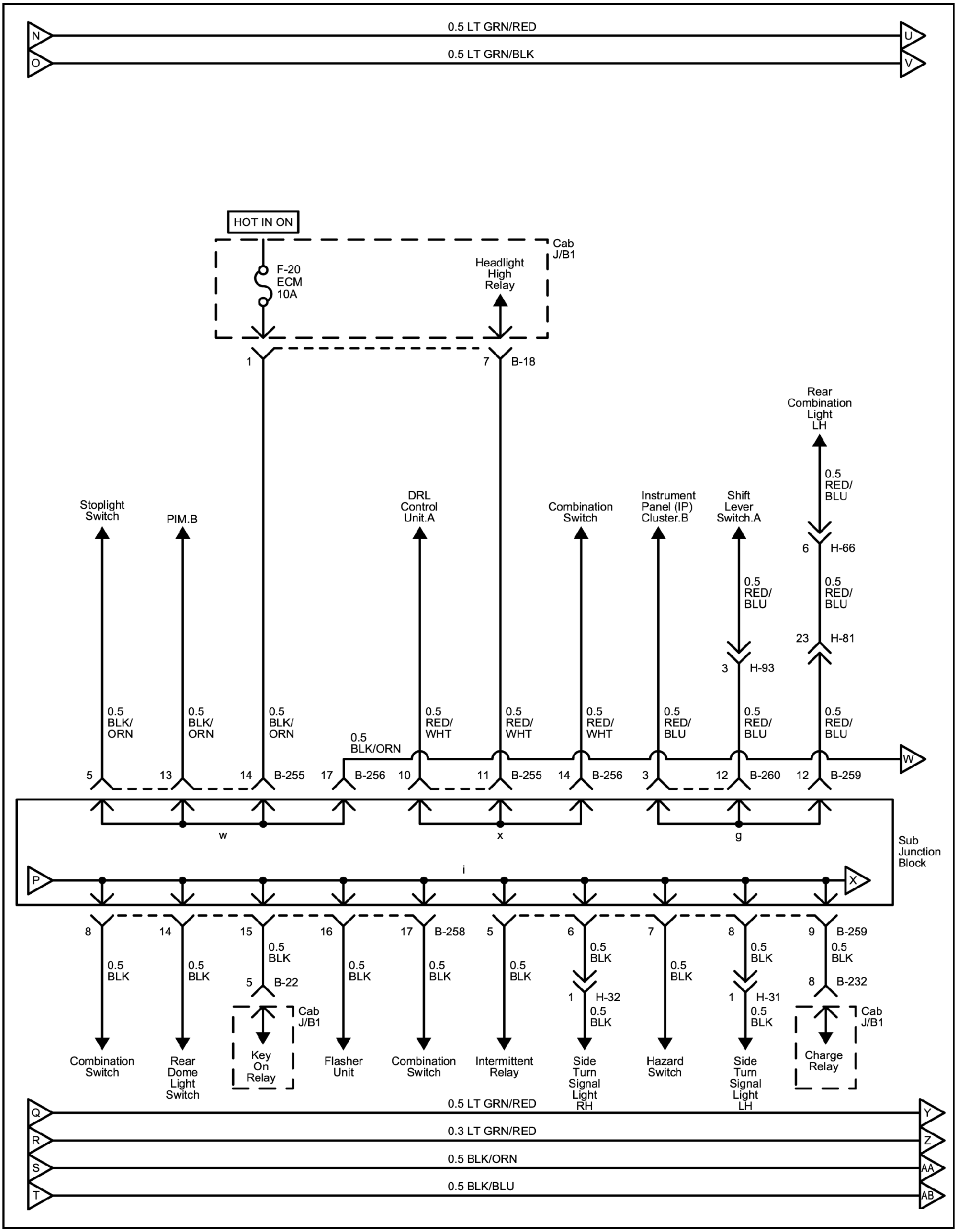
4557694


Cab J/B1
6 B-17
0.5 GRN/BLK
9 B-21
6 B-22
9 B-16
7 B-20
11
24 B-22
8 B-18
0.5 GRN/BLK
F
0.5 GRN/BLK
G
0.5 GRN/YEL
H
0.5 GRN/RED
I
A
B
Sub Junction Block
z
y
11
5
0.5 GRN/RED
6
0.5 GRN/RED
2
0.5 GRN/RED
16
15
0.5 GRN/RED
14 B-253
0.5 GRN/RED
0.5 GRN/YEL
0.5 GRN/YEL
0.5 GRN/YEL
0.5 GRN/YEL
C
D
7
8 H-114
(C-Cab)
1
13
5 H-92
2
7 H-87
5
6 H-86
0.5 GRN/RED
0.5 GRN/YEL
0.5 GRN/RED
0.5 GRN/YEL
0.5 GRN/BLK
0.5 GRN/YEL
0.5 GRN/RED
0.5 GRN/RED
0.5 GRN/YEL
6
5 H-51
6
5 H-49
0.5 GRN/RED
0.5 GRN/YEL
0.5 GRN/RED
0.5 GRN/YEL
4
2
3 D-5
2
1 D-7
2
1 D-24
2
1 D-23
M
L
UL
Front Door Lock Motor LH
M
UL
L
Front Door Lock Motor RH
M
UL
L
Rear Door Lock Motor RH
M
UL
L
Rear Door Lock Motor LH
5 D-5
0.5 BLK
H-92
10
0.5 BLK
14
12
B-264 J/C-30P
2 BLK
9
5
3 BLK
B-49 J/C-EA 10P2
10
3 BLK
4
3 BLK
10
B-48 J/C-EA 10P1
B-53
B-52
Refer to Ground Distribution
0.5 LT GRN/RED
J
0.3 LT GRN/RED
K
0.5 BLK/ORN
L
0.5 BLK/BLU
M

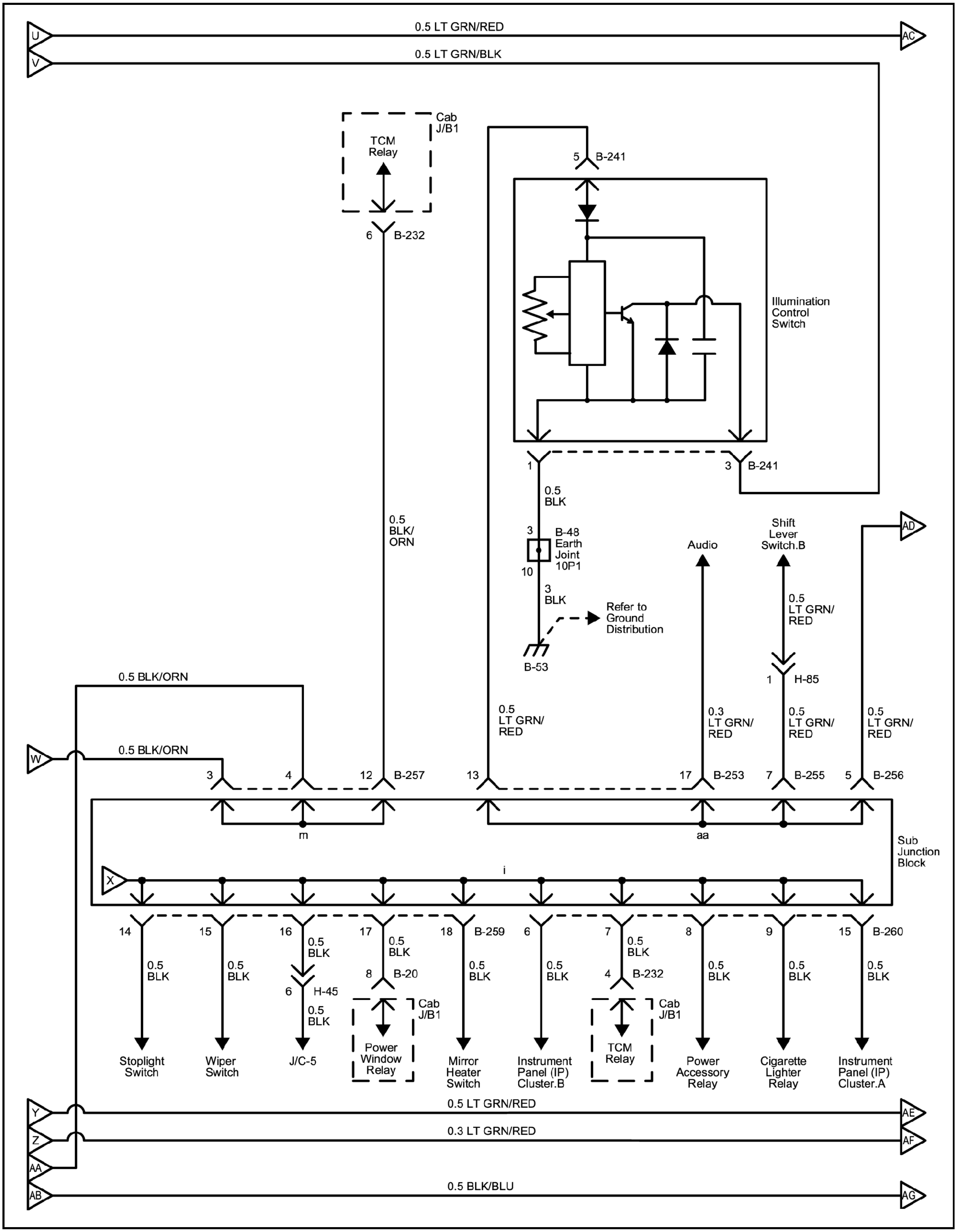
4557696


HOT AT ALL TIMES
Cab J/B1
F-4 Door Lock 15A
N
O
2 B-19
0.5 GRN
F
G
H
I
0.5 GRN/BLK
0.5 LT GRN/RED
0.5 GRN/YEL
0.5 GRN/RED
6 2 3 B-227
L
UL
Door Lock Controller
0.5 RED/ GRN
6 3 1 B-240
L
UL
E
Door Lock Switch
5 4 B-240
7 5 1 B-227
0.5 BLK
0.5 GRN/BLK
30
28
0.5 BLK
33 B-264 joint30P
Shift Lever Switch.B
0.5 LT GRN/ BLK
3 H-85
Instrument Panel (IP) Cluster.A
Fan Control Switch
Rear Dome Light Switch
Hazard Switch
Audio
0.5 LT GRN/ BLK
8 B-253
8
9
17 B-254
9
18 B-255
18 B-253
8 B-256
2 BLK
E
v
i
P
Sub Junction Block
4
5
6
7 B-258
2 BLK
Weld Splice 10
0.5 BLK
PIM.B
Data Link Connector
Brake Fluid Level Switch
B-48 J/C-EA 10P1
6
4
3 BLK
10
B-49 J/C-EA 10P2
10
5
3 BLK
3 BLK
Refer to Ground Distribution
B-53
B-52
3 BLK
3 BLK
Refer to Ground Distribution
B-57
B-58
J
K
L
M
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/ORN
0.5 BLK/BLU
Q
R
S
T

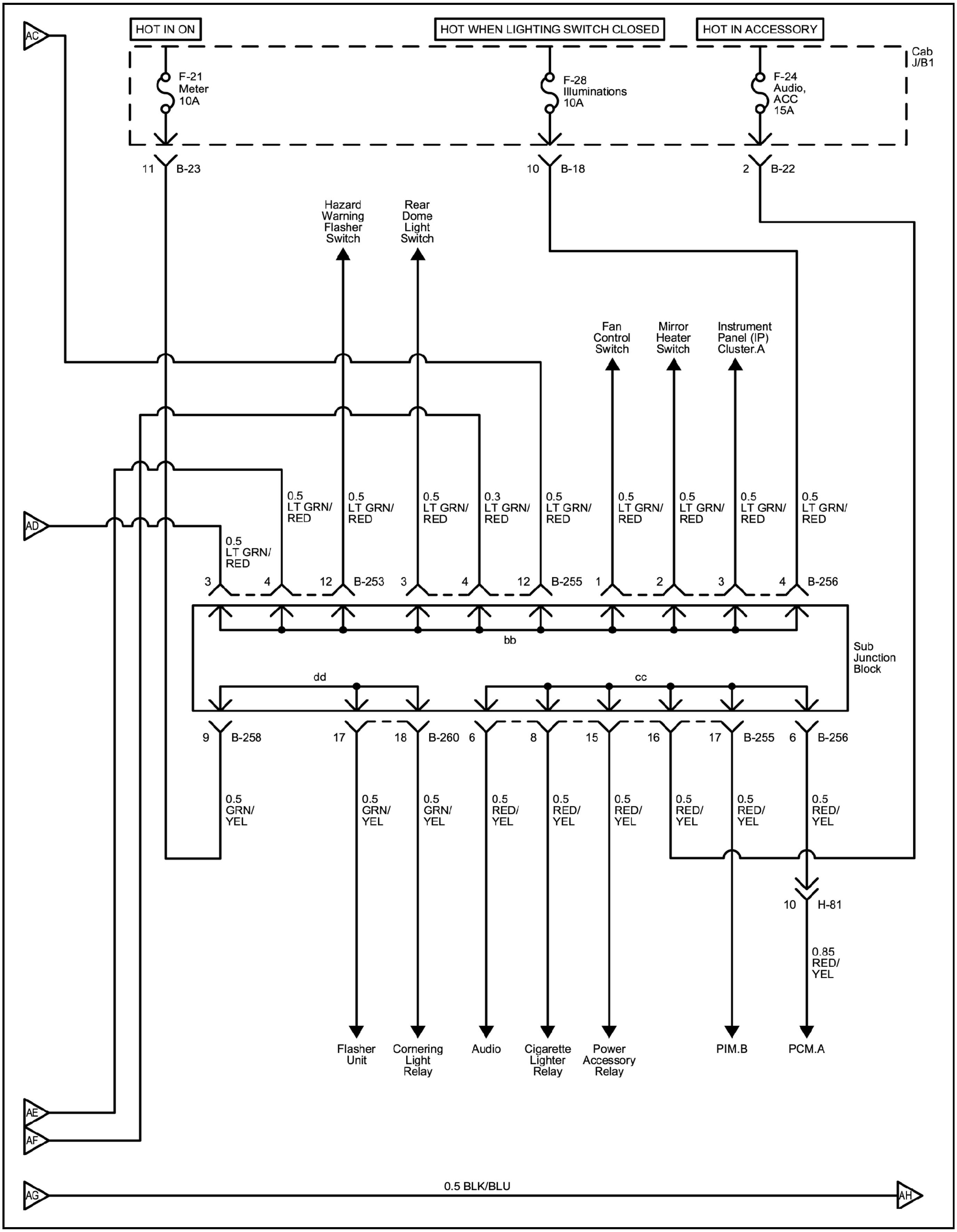
4557697


N
O
U
V
0.5 LT GRN/RED
0.5 LT GRN/BLK
HOT IN ON
Cab J/B1
F-20 ECM 10A
Headlight High Relay
1
7
B-18
Rear Combination Light LH
0.5 RED/ BLU
6
H-66
0.5 RED/ BLU
23
H-81
Stoplight Switch
PIM.B
DRL Control Unit.A
Combination Switch
Instrument Panel (IP) Cluster.B
Shift Lever Switch.A
0.5 RED/ BLU
3
H-93
0.5 BLK/ ORN
0.5 BLK/ ORN
0.5 BLK/ ORN
0.5 BLK/ORN
0.5 RED/ WHT
0.5 RED/ WHT
0.5 RED/ WHT
0.5 RED/ BLU
0.5 RED/ BLU
0.5 RED/ BLU
W
5
13
14
B-255
17
B-256
10
11
B-255
14
B-256
3
12
B-260
12
B-259
w
x
g
Sub Junction Block
P
i
X
8
14
15
16
17
B-258
5
6
7
8
9
B-259
0.5 BLK
0.5 BLK
0.5 BLK
5
B-22
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
1
H-32
0.5 BLK
0.5 BLK
0.5 BLK
1
H-31
0.5 BLK
0.5 BLK
8
B-232
Cab J/B1
Cab J/B1
Combination Switch
Rear Dome Light Switch
Key On Relay
Flasher Unit
Combination Switch
Intermittent Relay
Side Turn Signal Light RH
Hazard Switch
Side Turn Signal Light LH
Charge Relay
Q
R
S
T
Y
Z
AA
AB
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/ORN
0.5 BLK/BLU

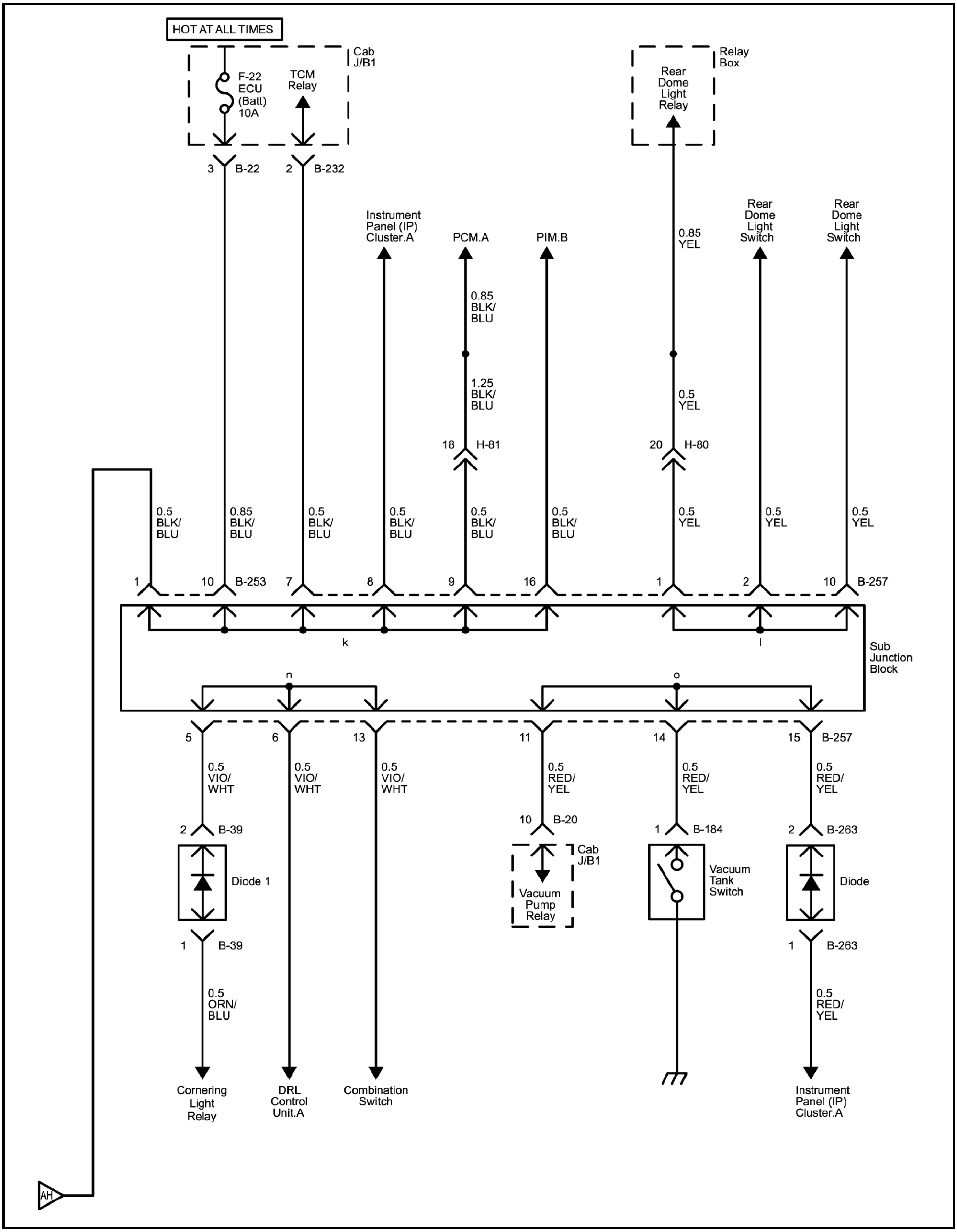
4557699


U
V
AC
0.5 LT GRN/RED
0.5 LT GRN/BLK
Cab
J/B1
TCM
Relay
6
B-232
5
B-241
Illumination
Control
Switch
1
3
B-241
0.5
BLK
3
B-48
Earth
Joint
10P1
10
3
BLK
Refer to
Ground
Distribution
B-53
0.5
BLK/
ORN
Audio
Shift
Lever
Switch.B
AD
0.5
LT GRN/
RED
1
H-85
0.5 BLK/ORN
W
0.5 BLK/ORN
0.5
LT GRN/
RED
0.3
LT GRN/
RED
0.5
LT GRN/
RED
0.5
LT GRN/
RED
3
4
12
B-257
13
17
B-253
7
B-255
5
B-256
m
aa
Sub
Junction
Block
X
i
14
15
16
17
18
B-259
6
7
8
9
15
B-260
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
8
B-20
4
B-232
6
H-45
0.5
BLK
Cab
J/B1
Cab
J/B1
Stoplight
Switch
Wiper
Switch
J/C-5
Power
Window
Relay
Mirror
Heater
Switch
Instrument
Panel (IP)
Cluster.B
TCM
Relay
Power
Accessory
Relay
Cigarette
Lighter
Relay
Instrument
Panel (IP)
Cluster.A
Y
Z
AA
AB
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/BLU
AE
AF
AG

4557700

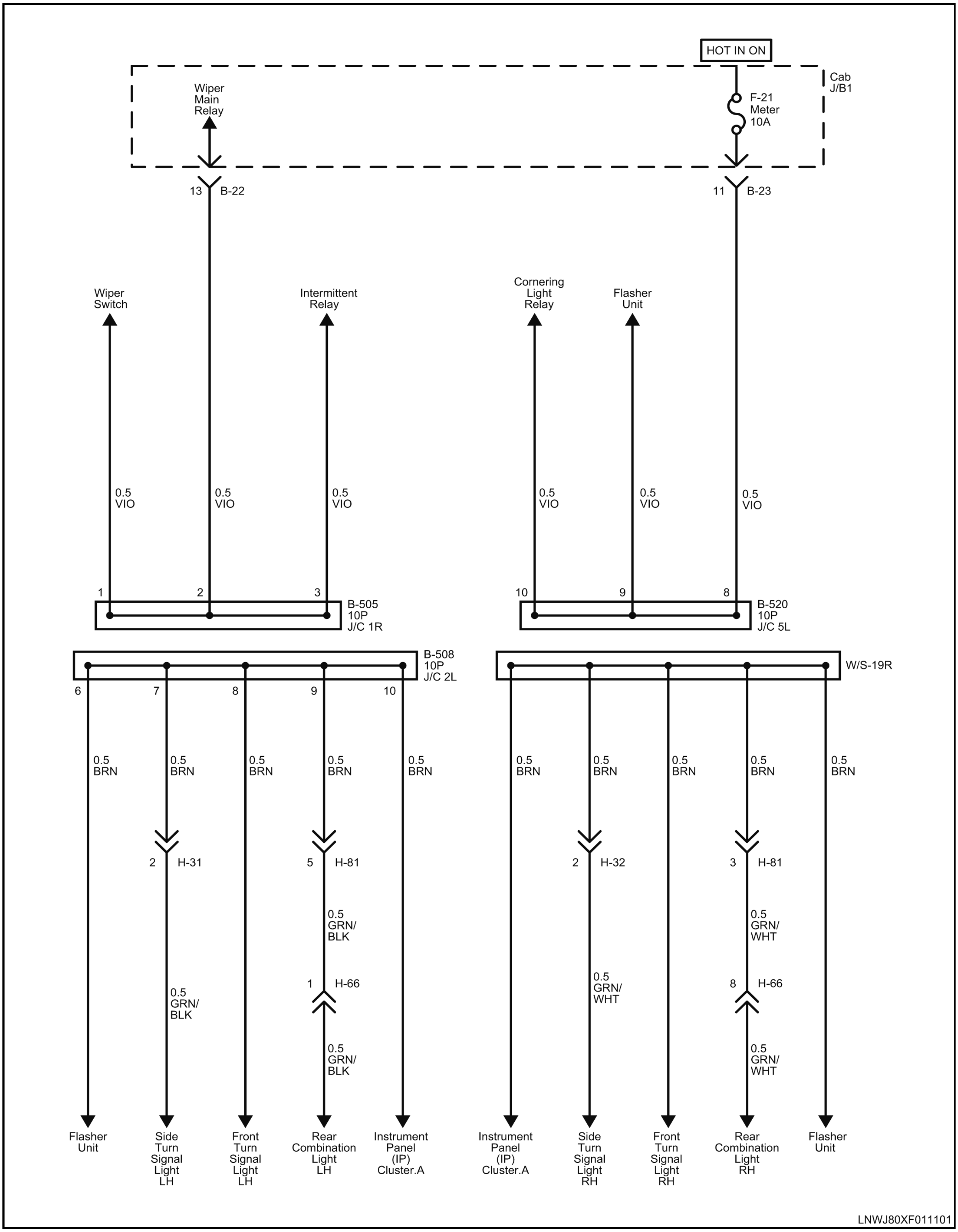

HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ACCESSORY
Cab J/B1
F-21 Meter 10A
F-28 Illuminations 10A
F-24 Audio, ACC 15A
11 B-23
10 B-18
2 B-22
AC
AD
AE
AF
AG
AH
Hazard Warning Flasher Switch
Rear Dome Light Switch
Fan Control Switch
Mirror Heater Switch
Instrument Panel (IP) Cluster.A
0.5 LT GRN/ RED
0.3 LT GRN/ RED
3 4 12 B-253
3 4 12 B-255
1 2 3 4 B-256
bb
dd
cc
Sub Junction Block
9 B-258
17 18 B-260
6 8 15 16 17 B-255
6 B-256
0.5 GRN/ YEL
0.5 RED/ YEL
10 H-81
0.85 RED/ YEL
Flasher Unit
Cornering Light Relay
Audio
Cigarette Lighter Relay
Power Accessory Relay
PIM.B
PCM.A
0.5 BLK/BLU

4557702

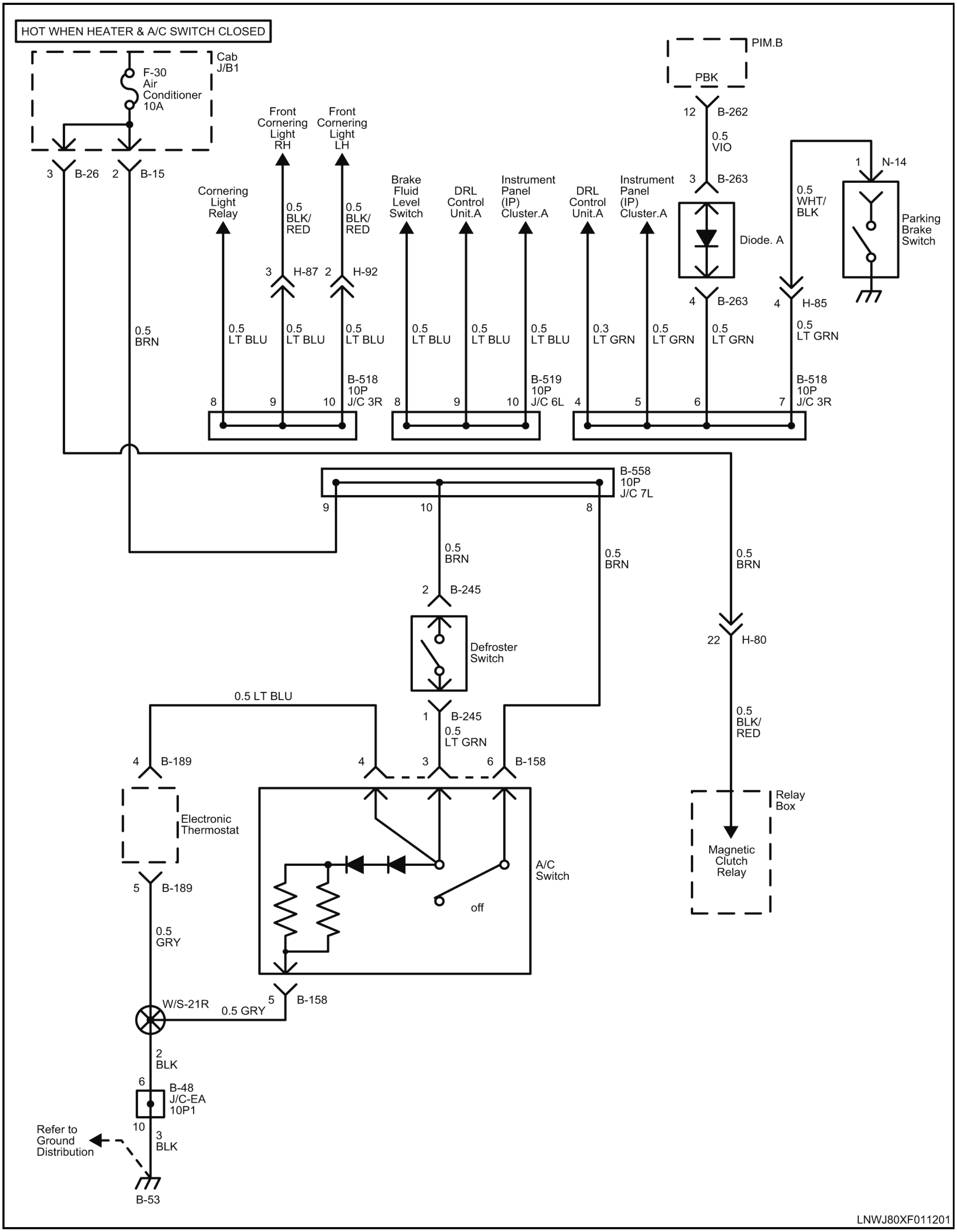

HOT AT ALL TIMES
Cab J/B1
F-22 ECU (Batt) 10A
TCM Relay
3 B-22
2 B-232
Relay Box
Rear Dome Light Relay
Instrument Panel (IP) Cluster.A
PCM.A
PIM.B
0.85 YEL
Rear Dome Light Switch
Rear Dome Light Switch
0.85 BLK/ BLU
1.25 BLK/ BLU
0.5 YEL
18 H-81
20 H-80
0.5 BLK/ BLU
0.85 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 YEL
0.5 YEL
0.5 YEL
1
10 B-253
7
8
9
16
1
2
10 B-257
k
l
Sub Junction Block
n
o
5
6
13
11
14
15 B-257
0.5 VIO/ WHT
0.5 VIO/ WHT
0.5 VIO/ WHT
0.5 RED/ YEL
0.5 RED/ YEL
0.5 RED/ YEL
2 B-39
10 B-20
1 B-184
2 B-263
Diode 1
Cab J/B1
Vacuum Pump Relay
Vacuum Tank Switch
Diode
1 B-39
1 B-263
0.5 ORN/ BLU
0.5 RED/ YEL
Cornering Light Relay
DRL Control Unit.A
Combination Switch
Instrument Panel (IP) Cluster.A
AH

4557703

10P Joint Connector Schematics


HOT IN ON
Cab J/B1
Wiper Main Relay
F-21 Meter 10A
13 B-22
11 B-23
Wiper Switch
Intermittent Relay
Cornering Light Relay
Flasher Unit
0.5 VIO
1
2
3
B-505 10P J/C 1R
10
9
8
B-520 10P J/C 5L
B-508 10P J/C 2L
W/S-19R
6
7
8
9
10
0.5 BRN
2 H-31
5 H-81
2 H-32
3 H-81
0.5 GRN/BLK
0.5 GRN/WHT
1 H-66
8 H-66
Flasher Unit
Side Turn Signal Light LH
Front Turn Signal Light LH
Rear Combination Light LH
Instrument Panel (IP) Cluster.A
Instrument Panel (IP) Cluster.A
Side Turn Signal Light RH
Front Turn Signal Light RH
Rear Combination Light RH
Flasher Unit
LNWJ80XF011101

4958055


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
3 B-26
2 B-15
0.5 BRN
Cornering Light Relay
Front Cornering Light RH
Front Cornering Light LH
0.5 BLK/RED
0.5 BLK/RED
3 H-87
2 H-92
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
B-518 10P J/C 3R
8
9
10
Brake Fluid Level Switch
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
B-519 10P J/C 6L
8
9
10
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
0.3 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
B-518 10P J/C 3R
4
5
6
7
PIM.B
PBK
12 B-262
0.5 VIO
3 B-263
Diode. A
4 B-263
1 N-14
0.5 WHT/BLK
Parking Brake Switch
4 H-85
B-558 10P J/C 7L
9
10
8
0.5 BRN
0.5 BRN
0.5 BRN
2 B-245
Defroster Switch
1 B-245
0.5 LT GRN
22 H-80
0.5 BLK/RED
0.5 LT BLU
4 B-189
Electronic Thermostat
5 B-189
4
3
6 B-158
A/C Switch
off
Relay Box
Magnetic Clutch Relay
0.5 GRY
5 B-158
W/S-21R
0.5 GRY
2 BLK
6
B-48 J/C-EA 10P1
10
3 BLK
Refer to Ground Distribution
B-53
LNWJ80XF011201

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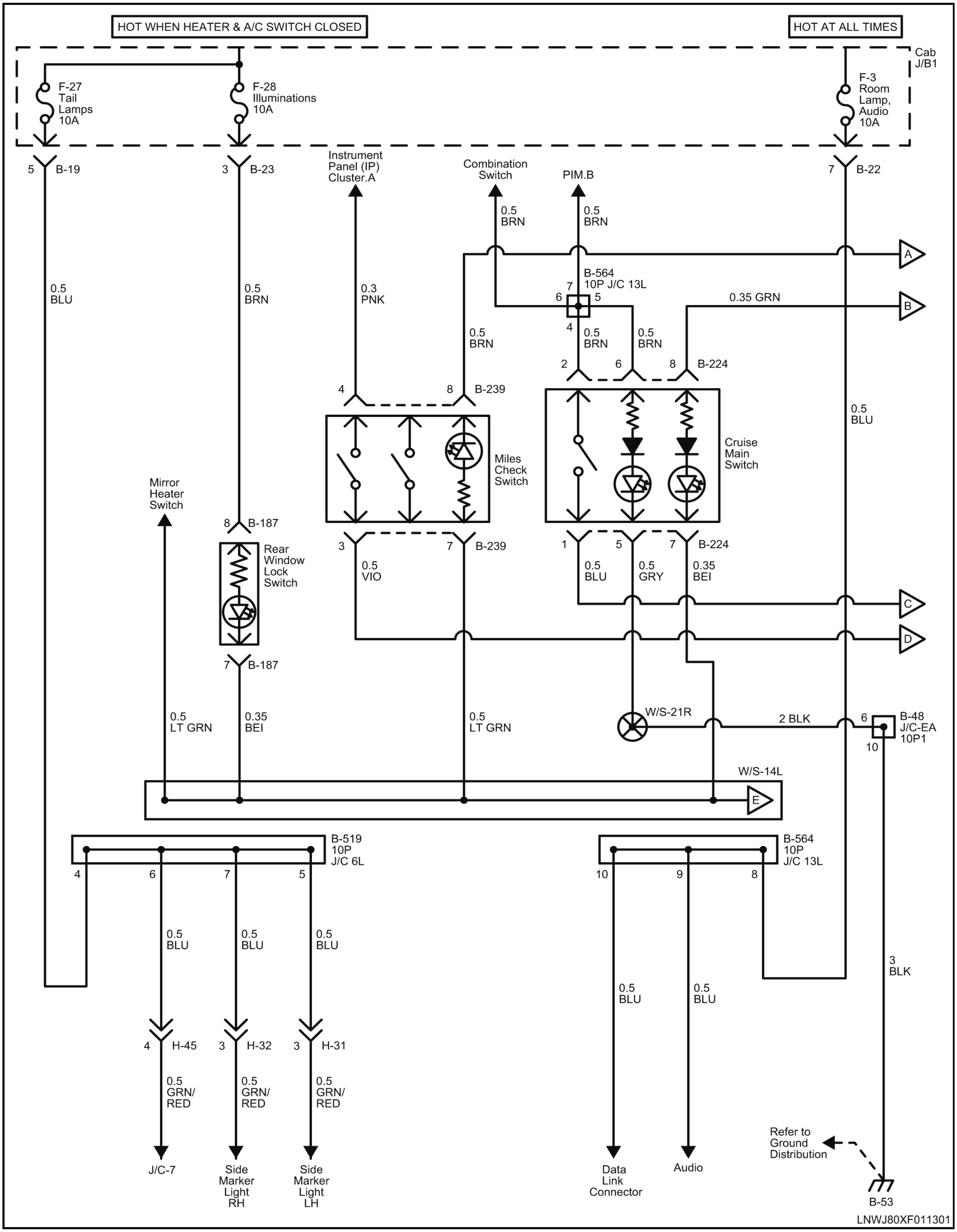
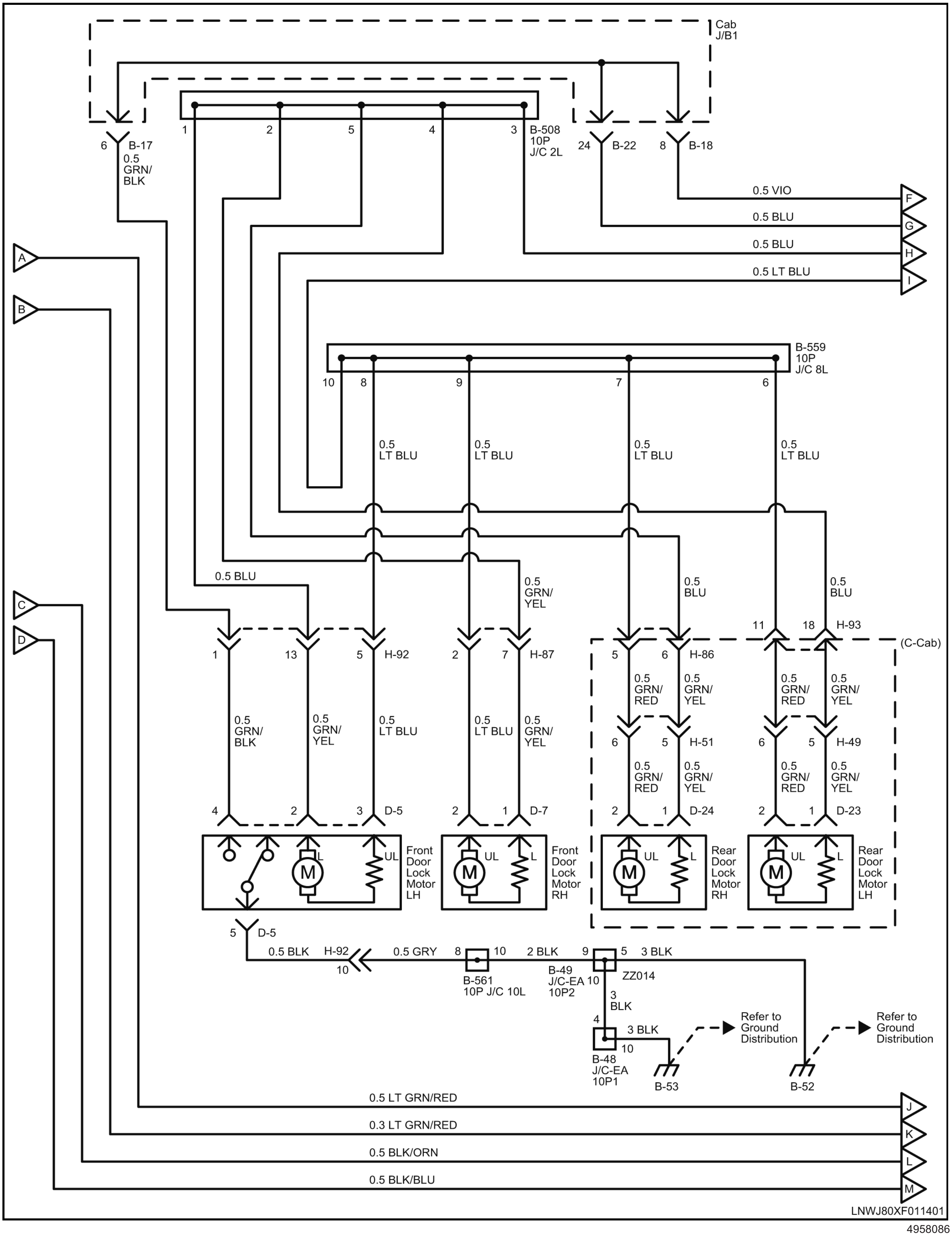
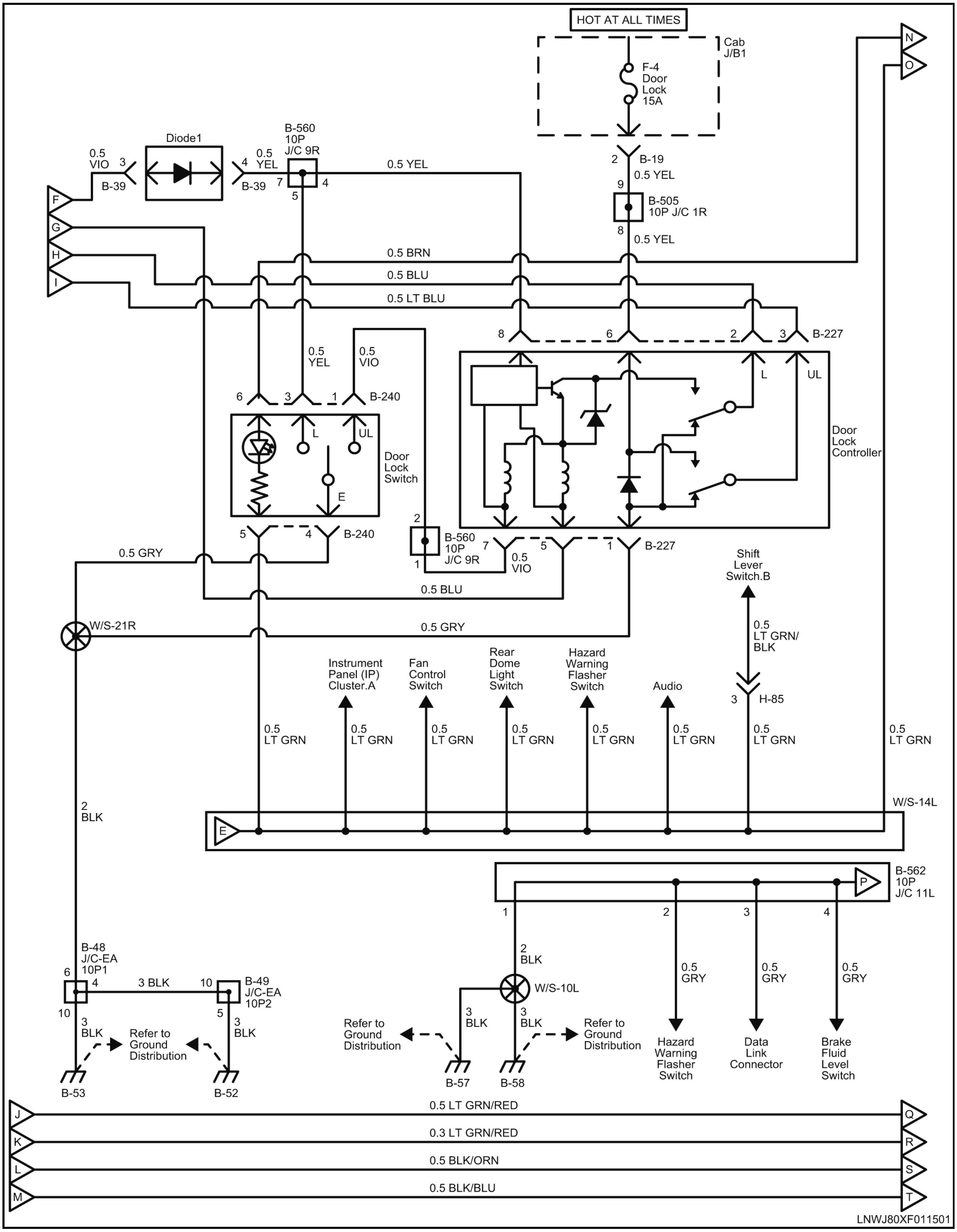
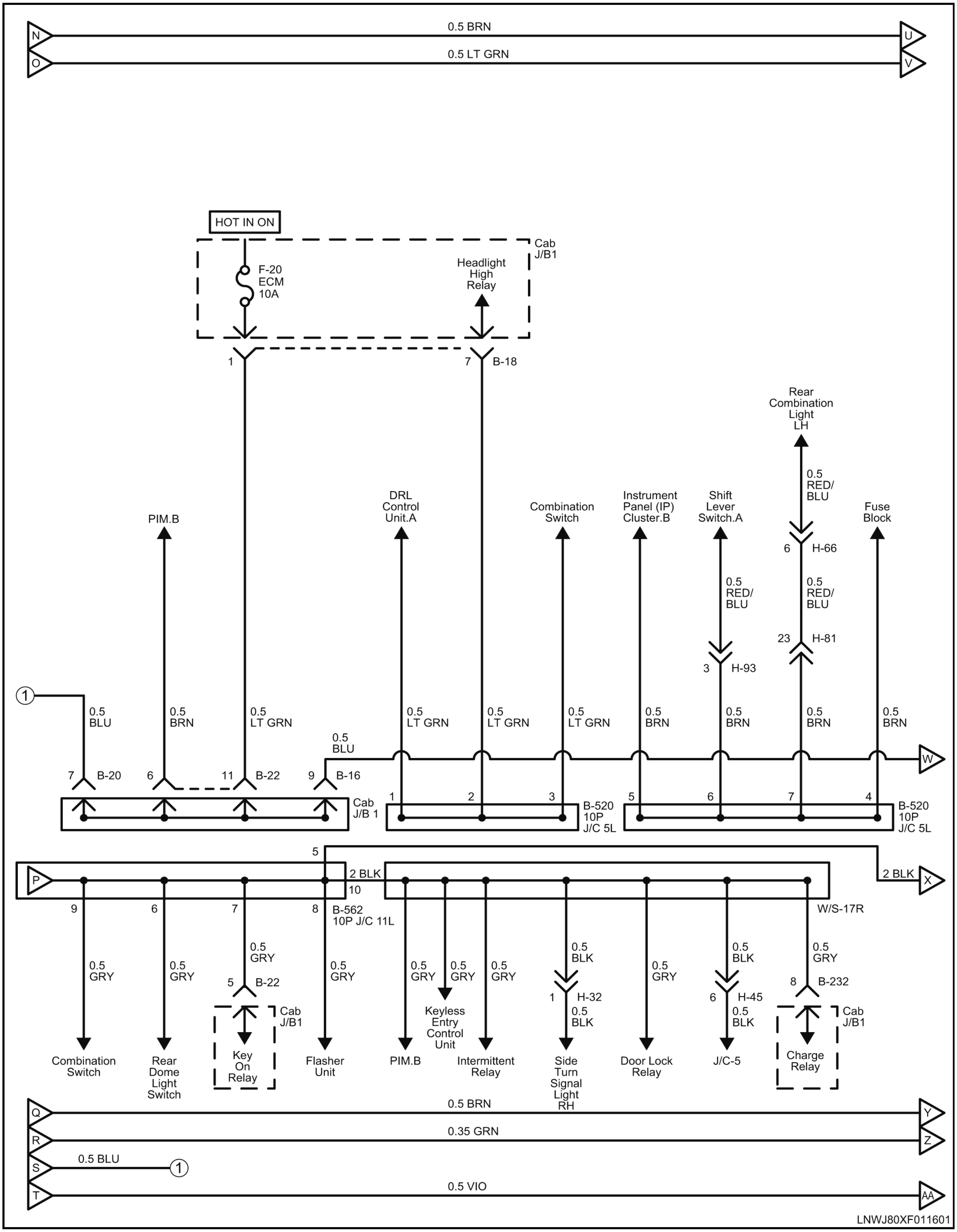

HOT WHEN HEATER & A/C SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-27 Tail Lamps 10A
F-28 Illuminations 10A
F-3 Room Lamp, Audio 10A
5 B-19
3 B-23
7 B-22
Instrument Panel (IP) Cluster.A
Combination Switch
PIM.B
0.5 BRN
0.5 BRN
A
B-564 10P J/C 13L
7
6
5
4
0.35 GRN
B
0.5 BLU
0.5 BRN
0.3 PNK
0.5 BRN
0.5 BRN
0.5 BRN
2 6 8 B-224
4 8 B-239
0.5 BLU
Miles Check Switch
Cruise Main Switch
Mirror Heater Switch
8 B-187
Rear Window Lock Switch
3 7 B-239
1 5 7 B-224
0.5 VIO
0.5 BLU
0.5 GRY
0.35 BEI
C
D
7 B-187
W/S-21R
2 BLK
6 B-48 J/C-EA 10P1
10
0.5 LT GRN
0.35 BEI
0.5 LT GRN
W/S-14L
E
B-519 10P J/C 6L
4 6 7 5
B-564 10P J/C 13L
10 9 8
0.5 BLU
0.5 BLU
0.5 BLU
3 BLK
0.5 BLU
0.5 BLU
4 H-45
3 H-32
3 H-31
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
Refer to Ground Distribution
J/C-7
Side Marker Light RH
Side Marker Light LH
Data Link Connector
Audio
B-53
LNWJ80XF011301

4958072

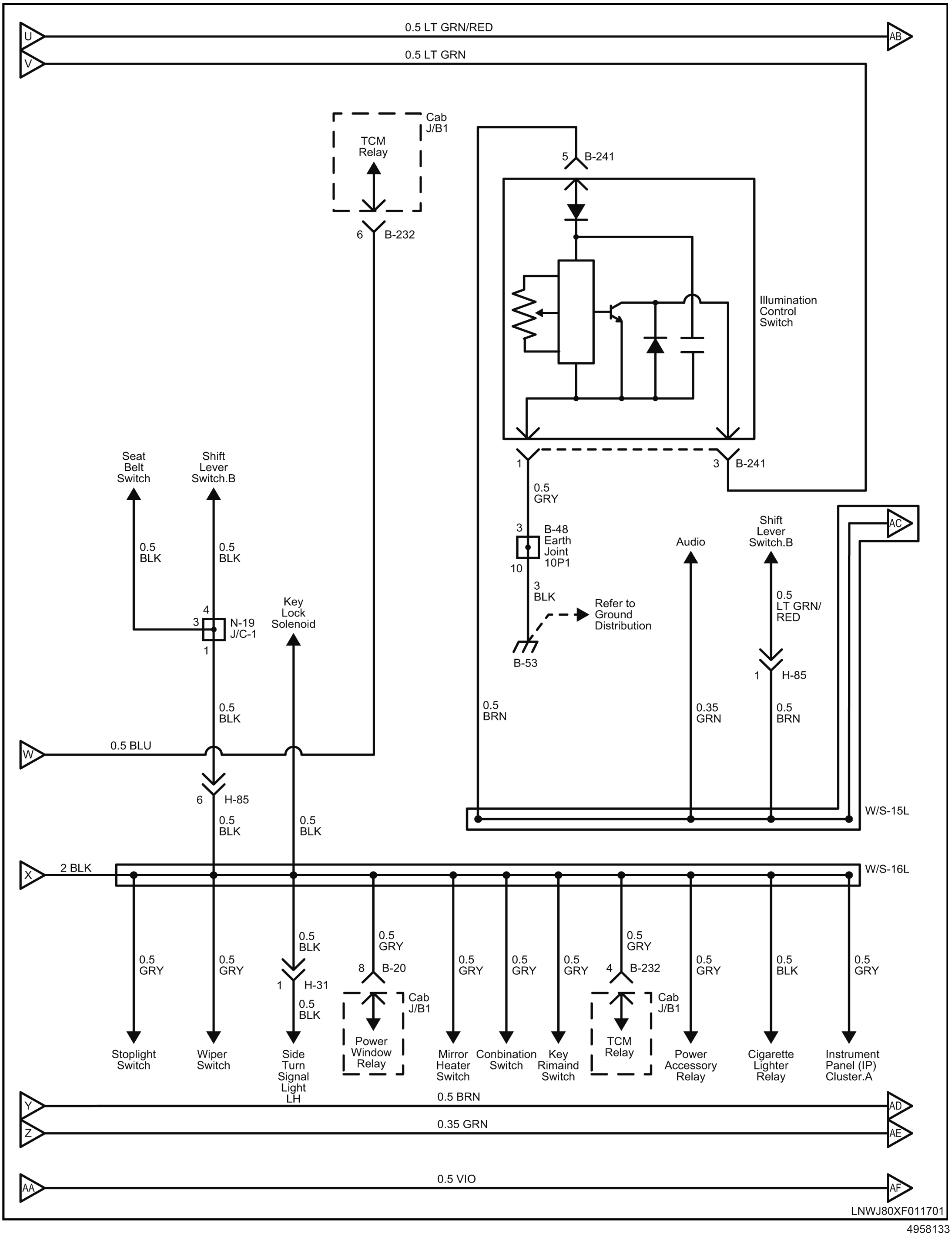

Cab J/B1
6 B-17
0.5 GRN/BLK
1
2
5
4
3
B-508 10P J/C 2L
24 B-22
8 B-18
0.5 VIO
F
0.5 BLU
G
0.5 BLU
H
0.5 LT BLU
I
A
B
B-559 10P J/C 8L
10
8
9
7
6
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
0.5 BLU
0.5 GRN/YEL
0.5 BLU
0.5 BLU
C
D
11
18 H-93
(C-Cab)
1
13
5 H-92
2
7 H-87
5
6 H-86
0.5 GRN/RED
0.5 GRN/YEL
0.5 GRN/RED
0.5 GRN/YEL
0.5 GRN/BLK
0.5 GRN/YEL
0.5 LT BLU
0.5 LT BLU
0.5 GRN/YEL
6
5 H-51
6
5 H-49
0.5 GRN/RED
0.5 GRN/YEL
0.5 GRN/RED
0.5 GRN/YEL
4
2
3 D-5
2
1 D-7
2
1 D-24
2
1 D-23
M
L
UL
Front Door Lock Motor LH
M
UL
L
Front Door Lock Motor RH
M
UL
L
Rear Door Lock Motor RH
M
UL
L
Rear Door Lock Motor LH
5 D-5
0.5 BLK
H-92
10
0.5 GRY
8
10
B-561 10P J/C 10L
2 BLK
9
5
3 BLK
B-49 J/C-EA 10P2
10
ZZ014
3 BLK
4
3 BLK
10
B-48 J/C-EA 10P1
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
0.5 LT GRN/RED
J
0.3 LT GRN/RED
K
0.5 BLK/ORN
L
0.5 BLK/BLU
M
LNWJ80XF011401

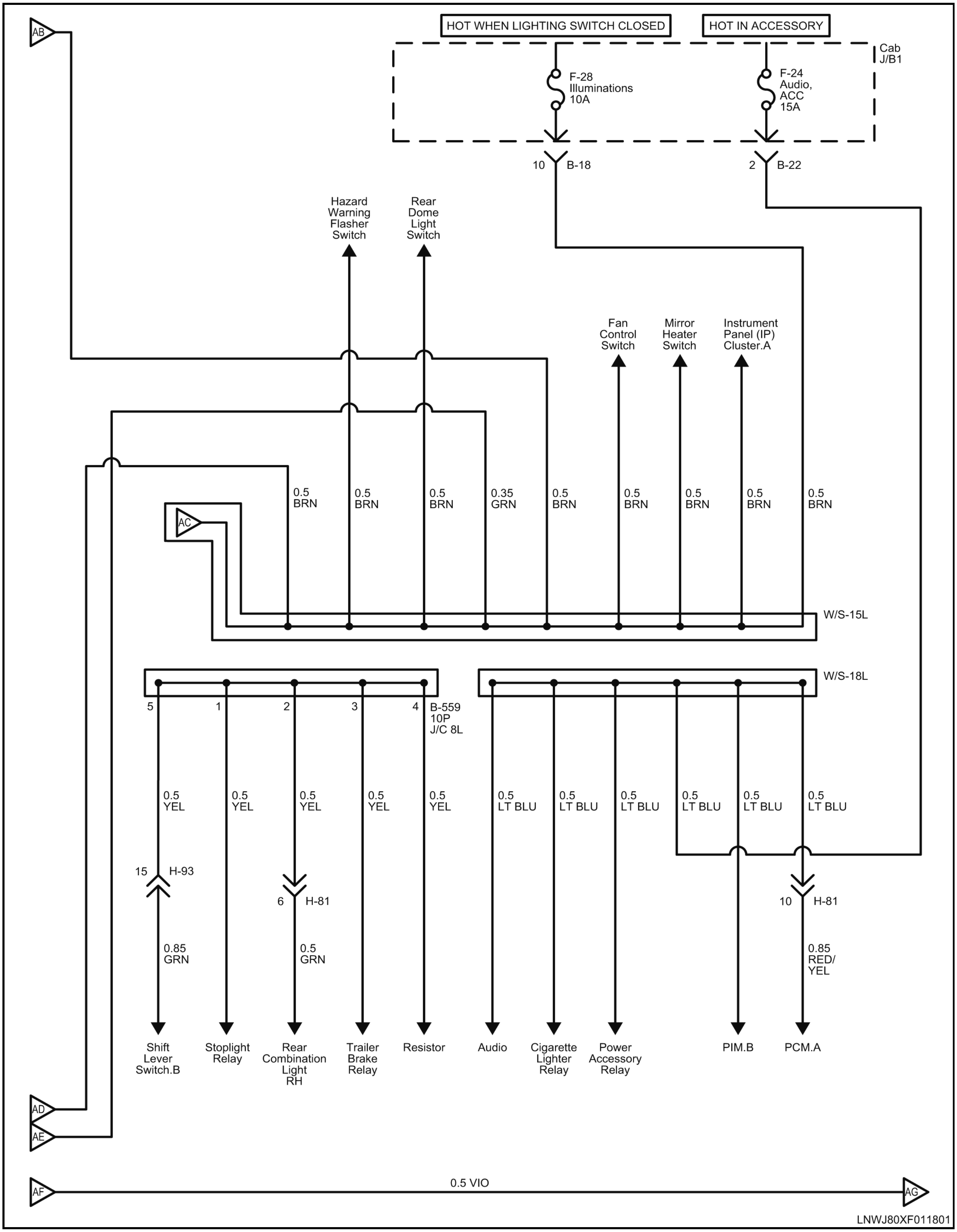
4958086


HOT AT ALL TIMES
Cab J/B1
F-4 Door Lock 15A
N
O
Diode1
0.5 VIO
3
B-39
4
0.5 YEL
B-39
B-560 10P J/C 9R
7
4
5
0.5 YEL
2
B-19
0.5 YEL
9
B-505 10P J/C 1R
8
0.5 YEL
F
G
H
I
0.5 BRN
0.5 BLU
0.5 LT BLU
8
6
2
3
B-227
0.5 YEL
0.5 VIO
6
3
1
B-240
L
UL
Door Lock Switch
E
L
UL
Door Lock Controller
5
4
B-240
2
B-560 10P J/C 9R
1
7
0.5 VIO
5
1
B-227
0.5 GRY
0.5 BLU
W/S-21R
0.5 GRY
Shift Lever Switch.B
0.5 LT GRN/ BLK
3
H-85
Instrument Panel (IP) Cluster.A
Fan Control Switch
Rear Dome Light Switch
Hazard Warning Flasher Switch
Audio
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
2 BLK
W/S-14L
E
B-562 10P J/C 11L
P
1
2
3
4
2 BLK
W/S-10L
0.5 GRY
0.5 GRY
0.5 GRY
B-48 J/C-EA 10P1
6
4
3 BLK
10
B-49 J/C-EA 10P2
10
5
3 BLK
3 BLK
Refer to Ground Distribution
B-53
B-52
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
B-57
B-58
Hazard Warning Flasher Switch
Data Link Connector
Brake Fluid Level Switch
J
0.5 LT GRN/RED
Q
K
0.3 LT GRN/RED
R
L
0.5 BLK/ORN
S
M
0.5 BLK/BLU
T
LNWJ80XF011501
4958093

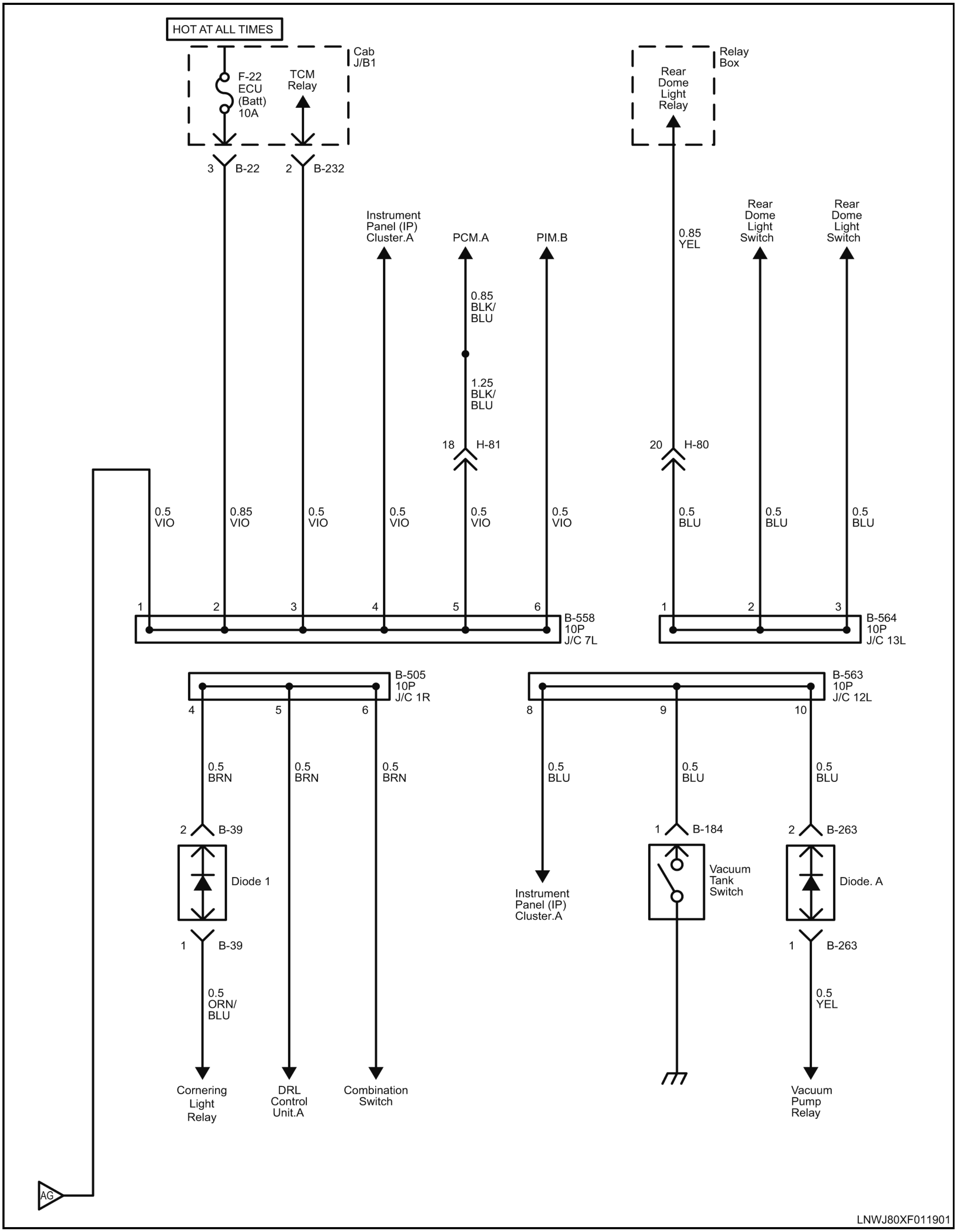

N
O
0.5 BRN
0.5 LT GRN
U
V
HOT IN ON
Cab J/B1
F-20 ECM 10A
Headlight High Relay
1
7 B-18
Rear Combination Light LH
0.5 RED/BLU
6 H-66
0.5 RED/BLU
23 H-81
PIM.B
DRL Control Unit.A
Combination Switch
Instrument Panel (IP) Cluster.B
Shift Lever Switch.A
0.5 RED/BLU
3 H-93
Fuse Block
1
0.5 BLU
0.5 BRN
0.5 LT GRN
0.5 BLU
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BRN
W
7 B-20
6
11 B-22
9 B-16
Cab J/B 1
1
2
3
B-520 10P J/C 5L
5
6
7
4
B-520 10P J/C 5L
5
P
2 BLK
10
2 BLK
X
9
6
7
8 B-562 10P J/C 11L
W/S-17R
0.5 GRY
0.5 GRY
0.5 GRY
5 B-22
Cab J/B1
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.5 BLK
1 H-32
0.5 BLK
0.5 GRY
0.5 BLK
6 H-45
0.5 BLK
0.5 GRY
8 B-232
Cab J/B1
Combination Switch
Rear Dome Light Switch
Key On Relay
Flasher Unit
PIM.B
Keyless Entry Control Unit
Intermittent Relay
Side Turn Signal Light RH
Door Lock Relay
J/C-5
Charge Relay
Q
0.5 BRN
Y
R
0.35 GRN
Z
S
0.5 BLU
1
T
0.5 VIO
AA
LNWJ80XF011601

4958126


U
0.5 LT GRN/RED
AB
V
0.5 LT GRN
Cab J/B1
TCM Relay
6 B-232
5 B-241
Illumination Control Switch
1
3 B-241
0.5 GRY
3 B-48 Earth Joint 10P1
10
3 BLK
Refer to Ground Distribution
B-53
Seat Belt Switch
Shift Lever Switch.B
0.5 BLK
0.5 BLK
4
3 N-19 J/C-1
1
Key Lock Solenoid
Audio
Shift Lever Switch.B
AC
0.5 LT GRN/ RED
1 H-85
0.5 BLK
0.5 BRN
0.35 GRN
0.5 BRN
W
0.5 BLU
6 H-85
0.5 BLK
0.5 BLK
W/S-15L
X
2 BLK
W/S-16L
0.5 GRY
0.5 GRY
0.5 BLK
1 H-31
0.5 BLK
0.5 GRY
8 B-20
Cab J/B1
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
4 B-232
Cab J/B1
0.5 GRY
0.5 BLK
0.5 GRY
Stoplight Switch
Wiper Switch
Side Turn Signal Light LH
Power Window Relay
Mirror Heater Switch
Conbination Switch
Key Rimaind Switch
TCM Relay
Power Accessory Relay
Cigarette Lighter Relay
Instrument Panel (IP) Cluster.A
Y
0.5 BRN
AD
Z
0.35 GRN
AE
AA
0.5 VIO
AF
LNWJ80XF011701
4958133

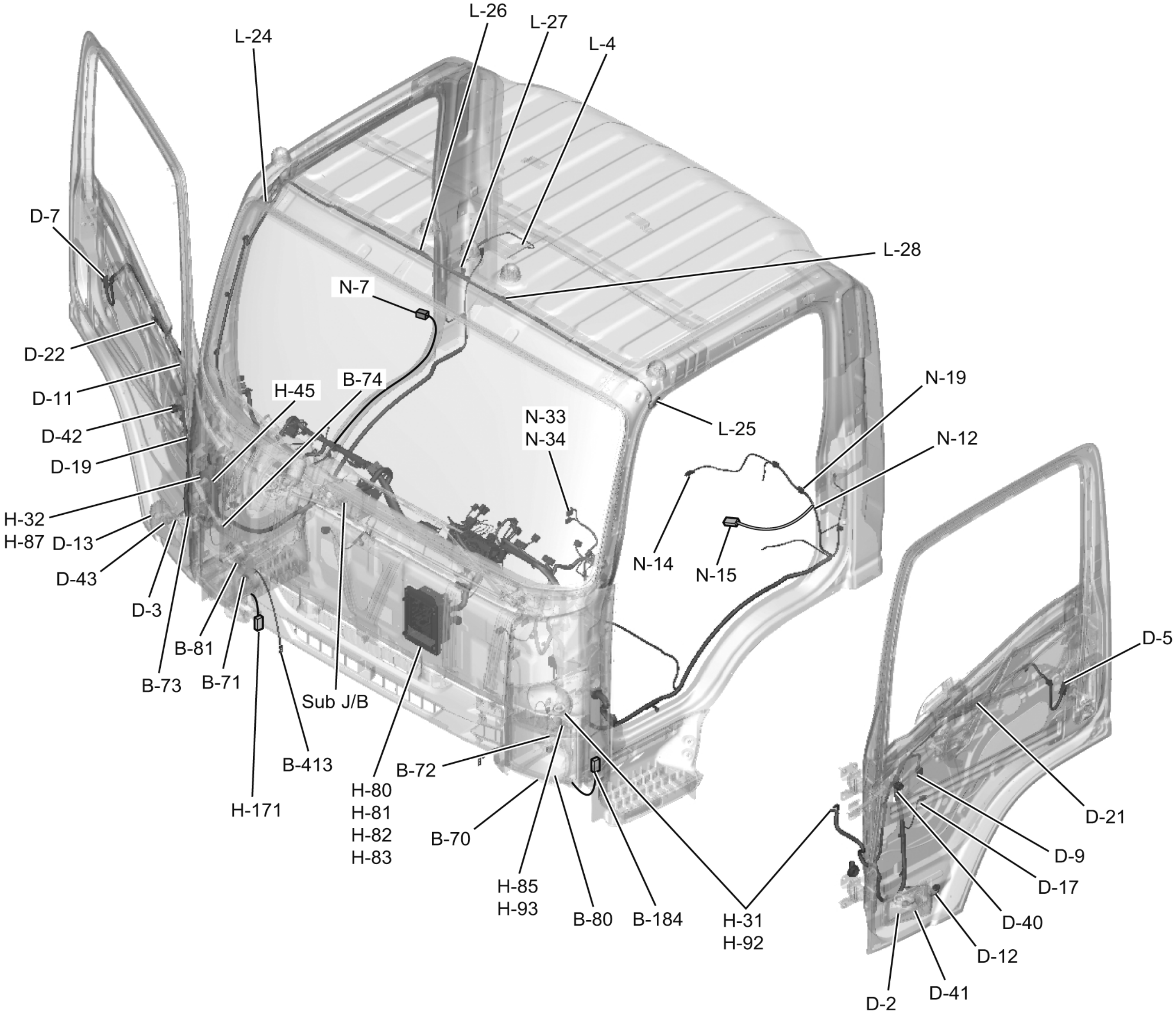

HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ACCESSORY
Cab J/B1
F-28 Illuminations 10A
F-24 Audio, ACC 15A
10 B-18
2 B-22
AB
Hazard Warning Flasher Switch
Rear Dome Light Switch
Fan Control Switch
Mirror Heater Switch
Instrument Panel (IP) Cluster.A
0.5 BRN
0.5 BRN
0.5 BRN
0.35 GRN
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BRN
AC
W/S-15L
W/S-18L
5
1
2
3
4
B-559 10P J/C 8L
0.5 YEL
0.5 YEL
0.5 YEL
0.5 YEL
0.5 YEL
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
15 H-93
6 H-81
10 H-81
0.85 GRN
0.5 GRN
0.85 RED/ YEL
Shift Lever Switch.B
Stoplight Relay
Rear Combination Light RH
Trailer Brake Relay
Resistor
Audio
Cigarette Lighter Relay
Power Accessory Relay
PIM.B
PCM.A
AD
AE
AF
0.5 VIO
AG
LNWJ80XF011801

4958148


HOT AT ALL TIMES
Cab J/B1
F-22 ECU (Batt) 10A
TCM Relay
3 B-22
2 B-232
Relay Box
Rear Dome Light Relay
Instrument Panel (IP) Cluster.A
PCM.A
PIM.B
0.85 YEL
Rear Dome Light Switch
Rear Dome Light Switch
0.85 BLK/ BLU
1.25 BLK/ BLU
18 H-81
20 H-80
0.5 VIO
0.85 VIO
0.5 VIO
0.5 VIO
0.5 VIO
0.5 VIO
0.5 BLU
0.5 BLU
0.5 BLU
1 2 3 4 5 6
B-558 10P J/C 7L
1 2 3
B-564 10P J/C 13L
B-505 10P J/C 1R
4 5 6
B-563 10P J/C 12L
8 9 10
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BLU
0.5 BLU
0.5 BLU
2 B-39
Diode 1
1 B-39
1 B-184
Vacuum Tank Switch
2 B-263
Diode. A
1 B-263
Instrument Panel (IP) Cluster.A
0.5 ORN/ BLU
0.5 YEL
Cornering Light Relay
DRL Control Unit.A
Combination Switch
Vacuum Pump Relay
AG
LNWJ80XF011901

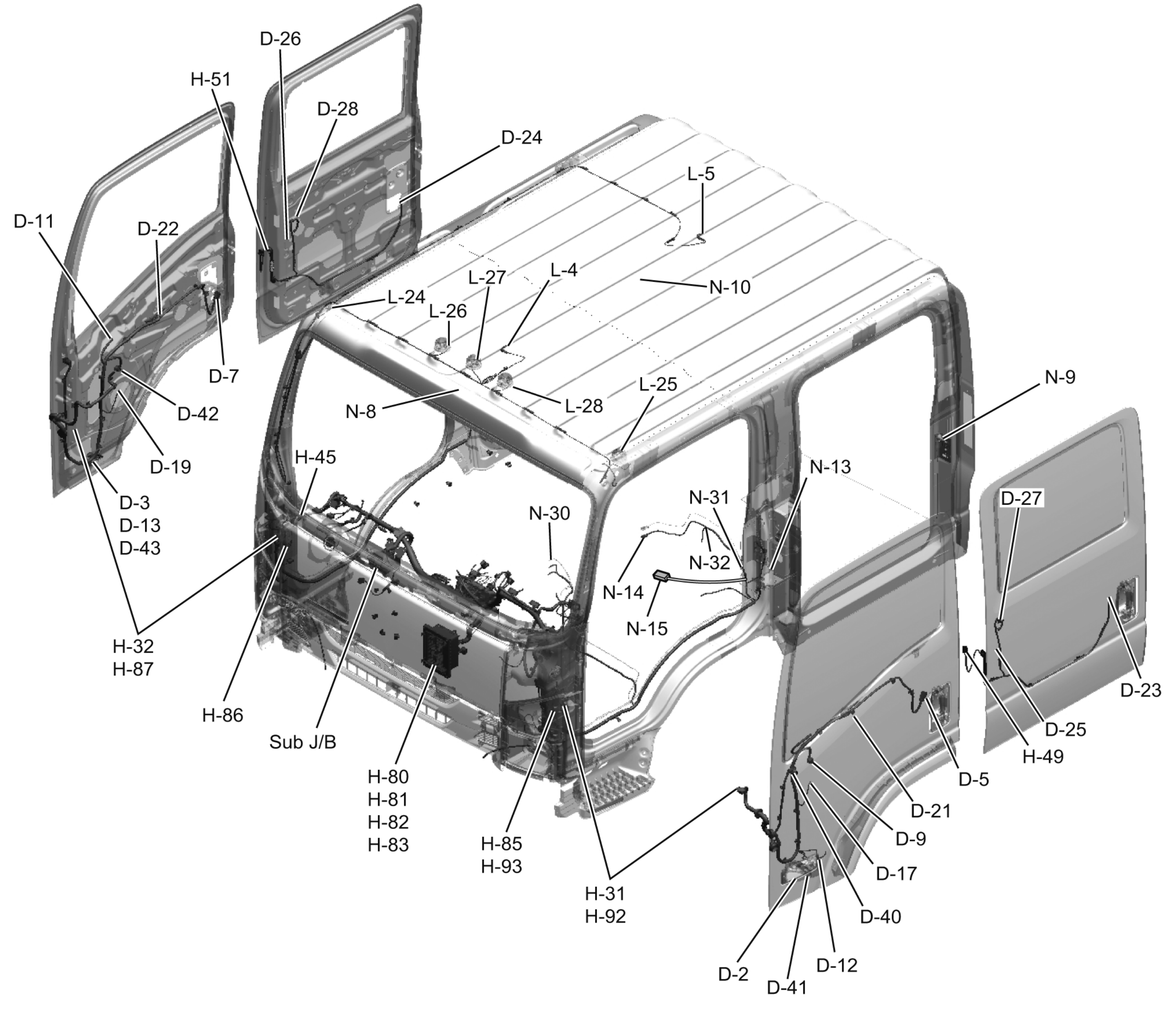
4958156

Harness Routing Views (Cab Harness (S-CAB) Routing)


L-26
L-27
L-24
L-4
D-7
L-28
N-7
D-22
D-11
H-45
B-74
N-19
N-33
N-34
L-25
N-12
D-42
D-19
H-32
H-87
D-13
D-43
D-3
N-14
N-15
D-5
B-81
B-73
B-71
Sub J/B
B-413
B-72
H-80
H-81
H-82
H-83
H-171
B-70
D-21
D-9
D-17
H-85
H-93
B-80
B-184
H-31
H-92
D-40
D-12
D-2
D-41
LNWJ80XF012701

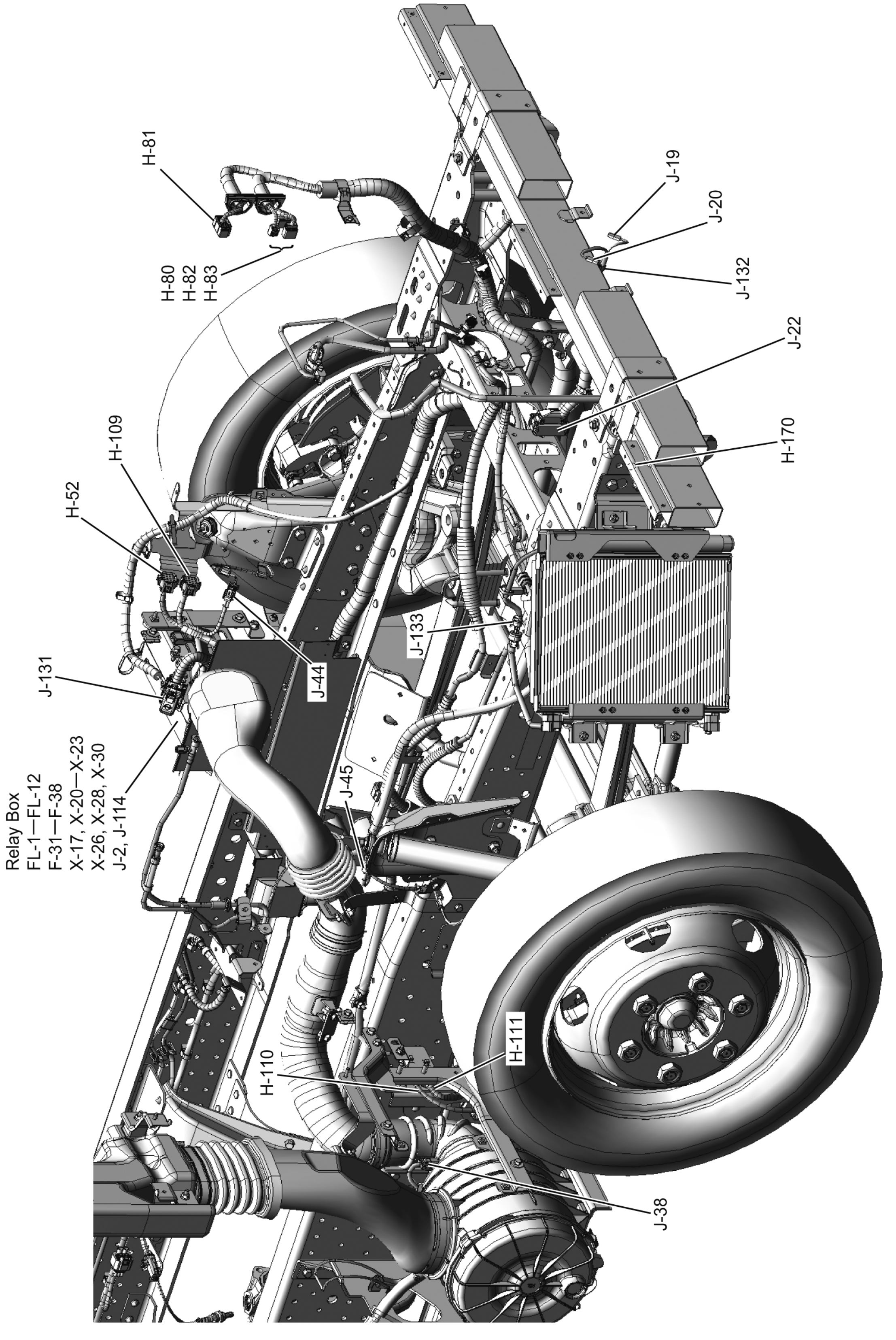
4956736

Harness Routing Views (Cab Harness (C-CAB))


D-26
H-51
D-28
D-24
L-5
D-11
D-22
L-27
L-4
N-10
L-24
L-26
D-7
N-9
L-25
D-42
N-8
L-28
D-19
H-45
N-13
D-3
D-13
D-43
N-31
D-27
N-30
N-32
N-14
N-15
H-32
H-87
D-23
H-86
Sub J/B
D-25
H-49
D-5
H-80
H-81
H-82
H-83
D-21
D-9
H-85
H-93
D-17
H-31
H-92
D-40
D-12
D-2
D-41
LNWJ80XF012801

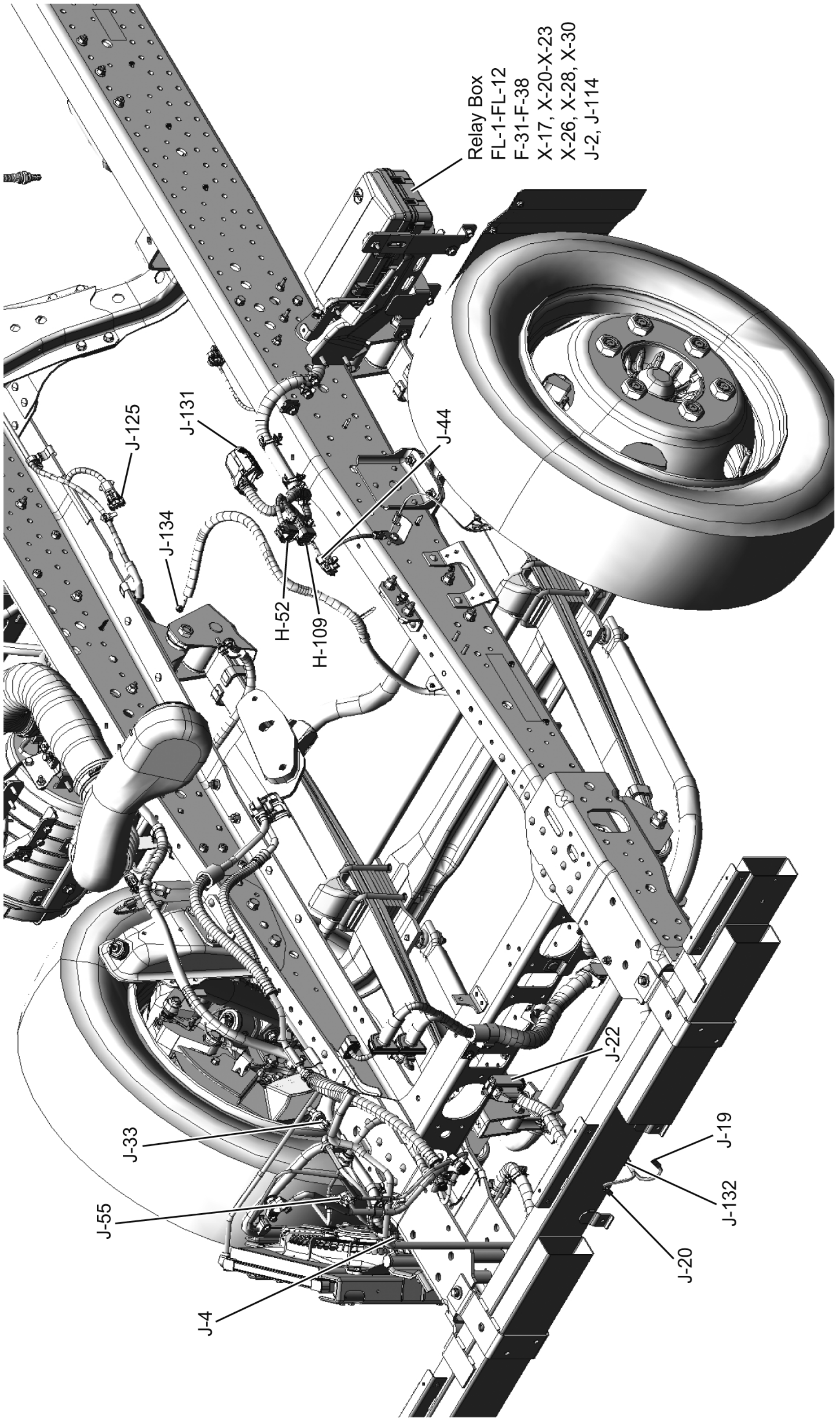
4956746

Harness Routing Views (Frame Harness Routing (1 of 6))


H-81
H-80
H-82
H-83
J-19
J-20
J-132
J-22
H-170
H-109
H-52
J-131
Relay Box
FL-1—FL-12
F-31—F-38
X-17, X-20—X-23
X-26, X-28, X-30
J-2, J-114
J-44
J-133
J-45
H-110
H-111
J-38
LNWJ80XF013601

4956759

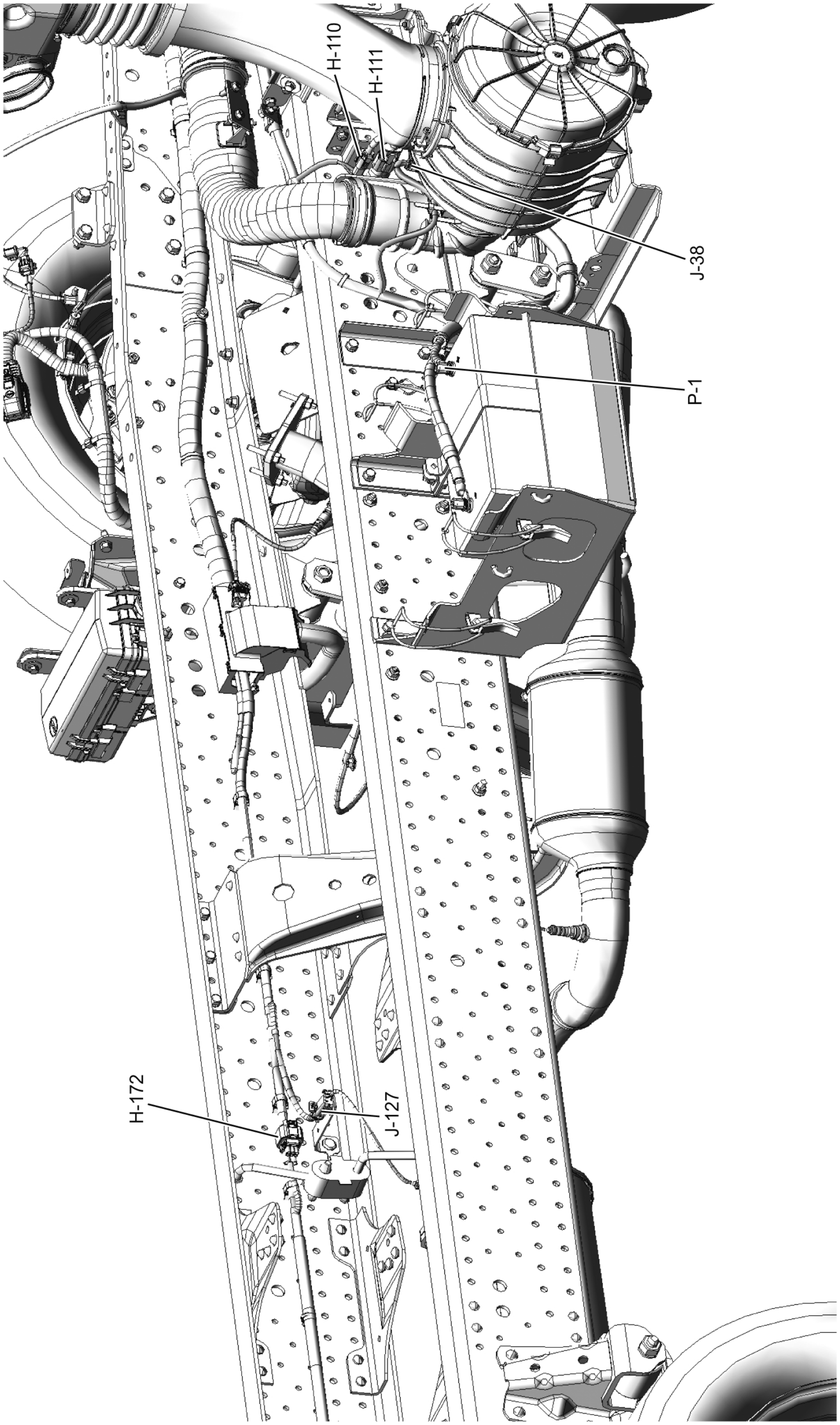
Harness Routing Views (Frame Harness Routing (2 of 6))


Relay Box
FL-1-FL-12
F-31-F-38
X-17, X-20-X-23
X-26, X-28, X-30
J-2, J-114
J-125
J-131
J-44
J-134
H-52
H-109
J-22
J-19
J-33
J-132
J-55
J-20
J-4

LNWJ80XF013701

4956769

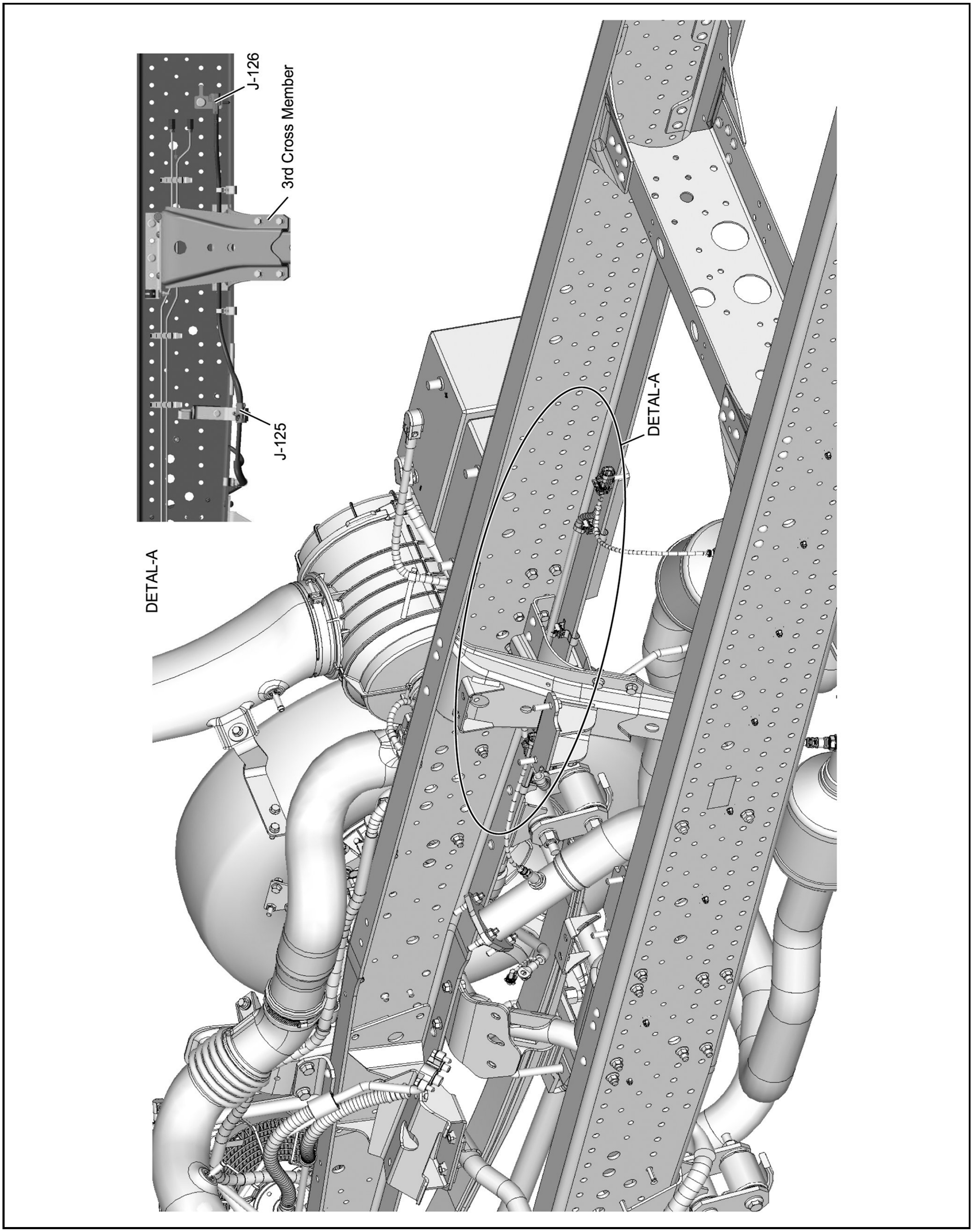
Harness Routing Views (Frame Harness Routing (3 of 6))


H-110
H-111
J-38
P-1
H-172
J-127

LNWJ80XF013801

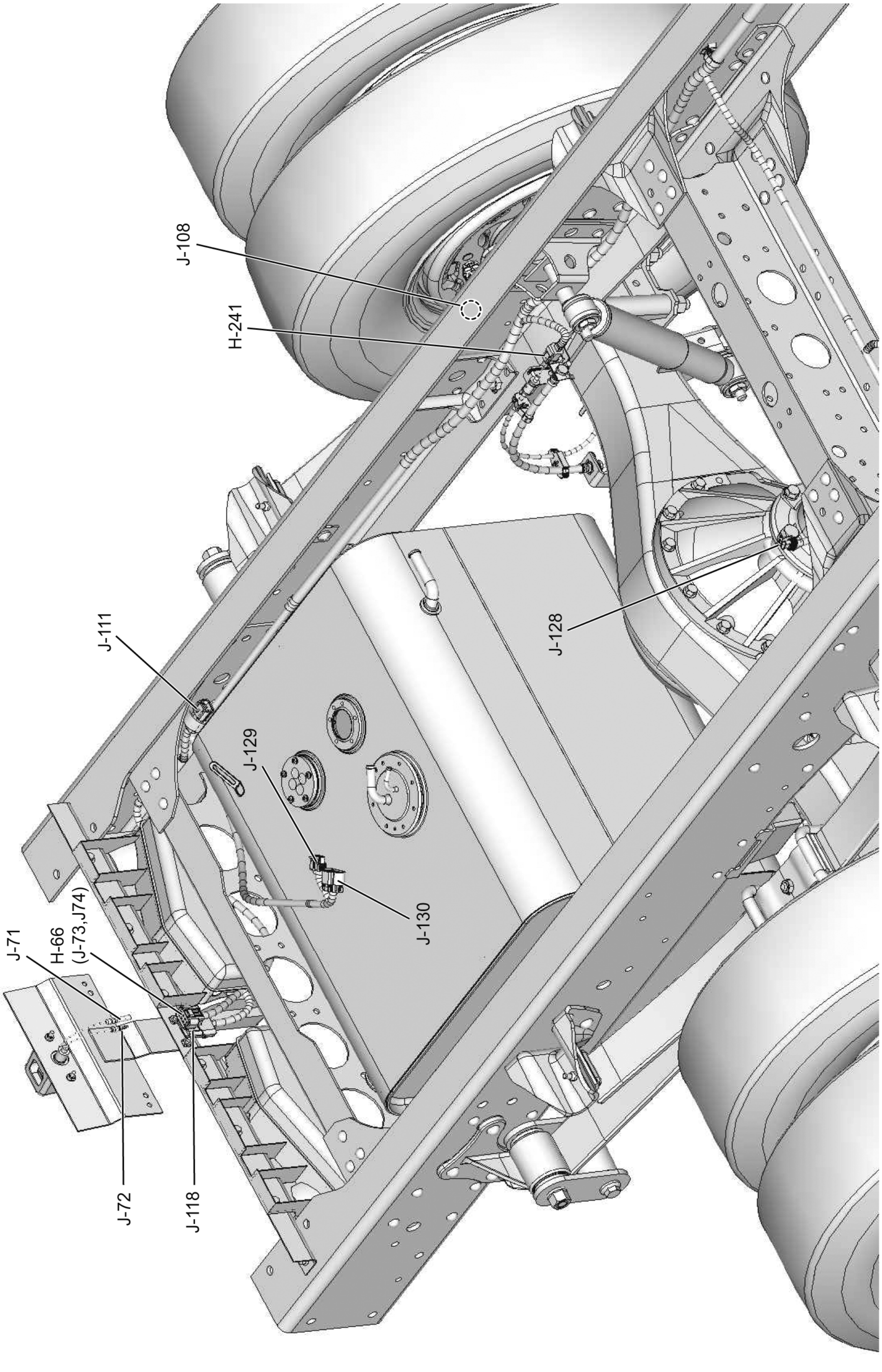
4956775

Harness Routing Views (Frame Harness Routing (4 of 6))


J-126
3rd Cross Member
J-125
DETAL-A
DETAL-A

4556260

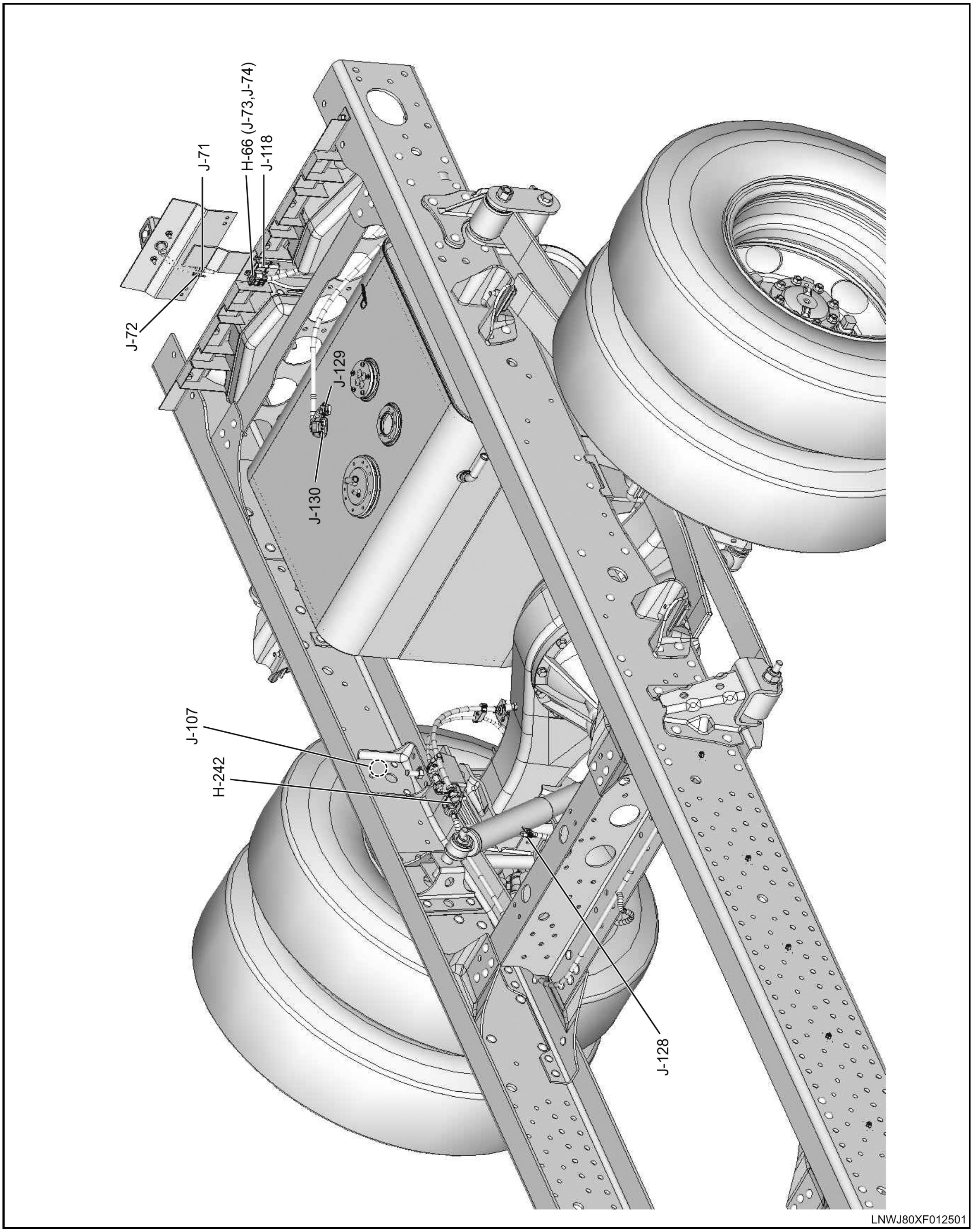
Harness Routing Views (Frame Harness Routing (5 of 6))


J-108
H-241
J-111
J-128
J-129
J-130
J-71
H-66
(J-73,J74)
J-72
J-118

LNWJ80XF012401

4956785

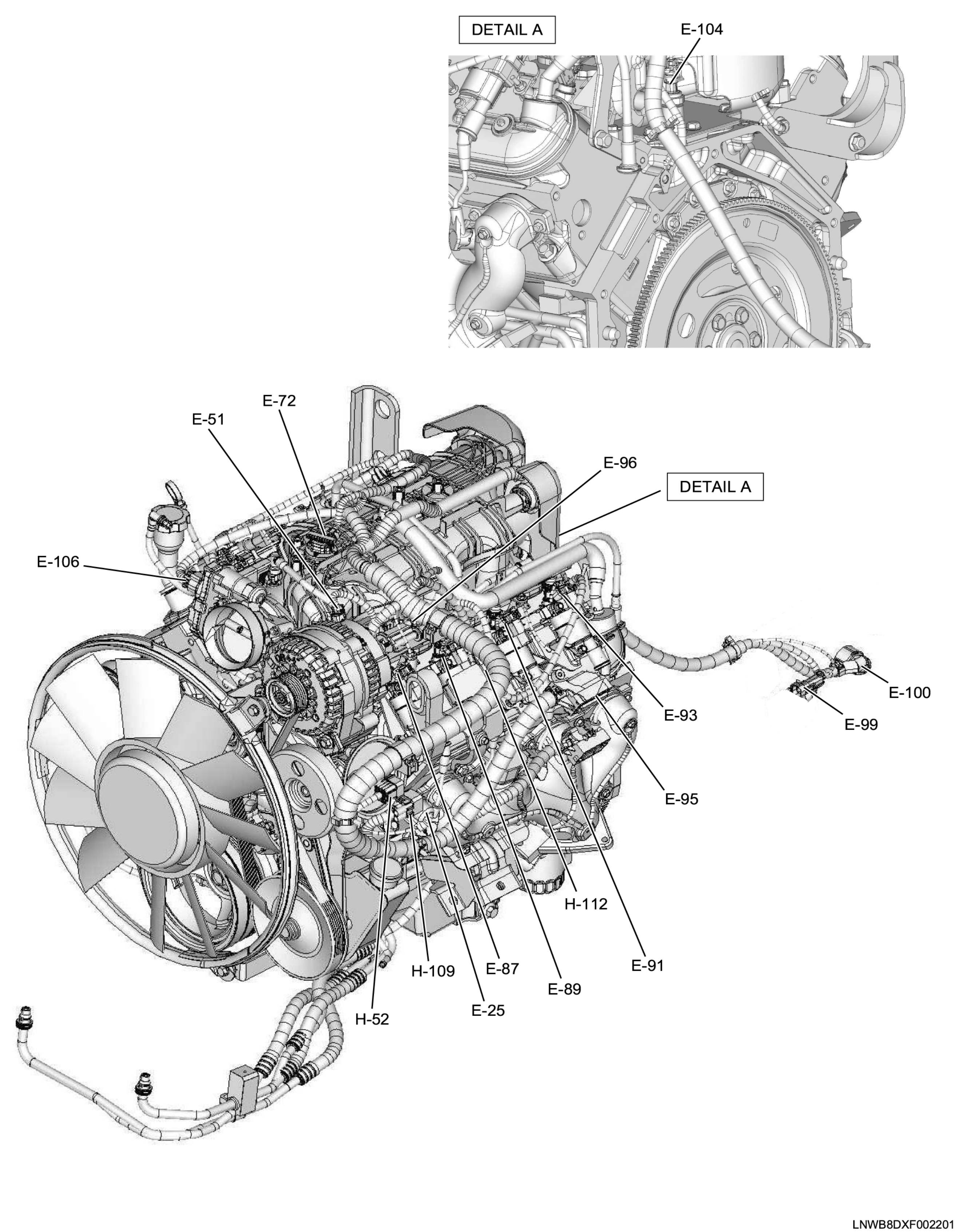
Harness Routing Views (Frame Harness Routing (6 of 6))


J-72
J-71
H-66 (J-73,J-74)
J-118
J-129
J-130
J-107
H-242
J-128

LNWJ80XF012501

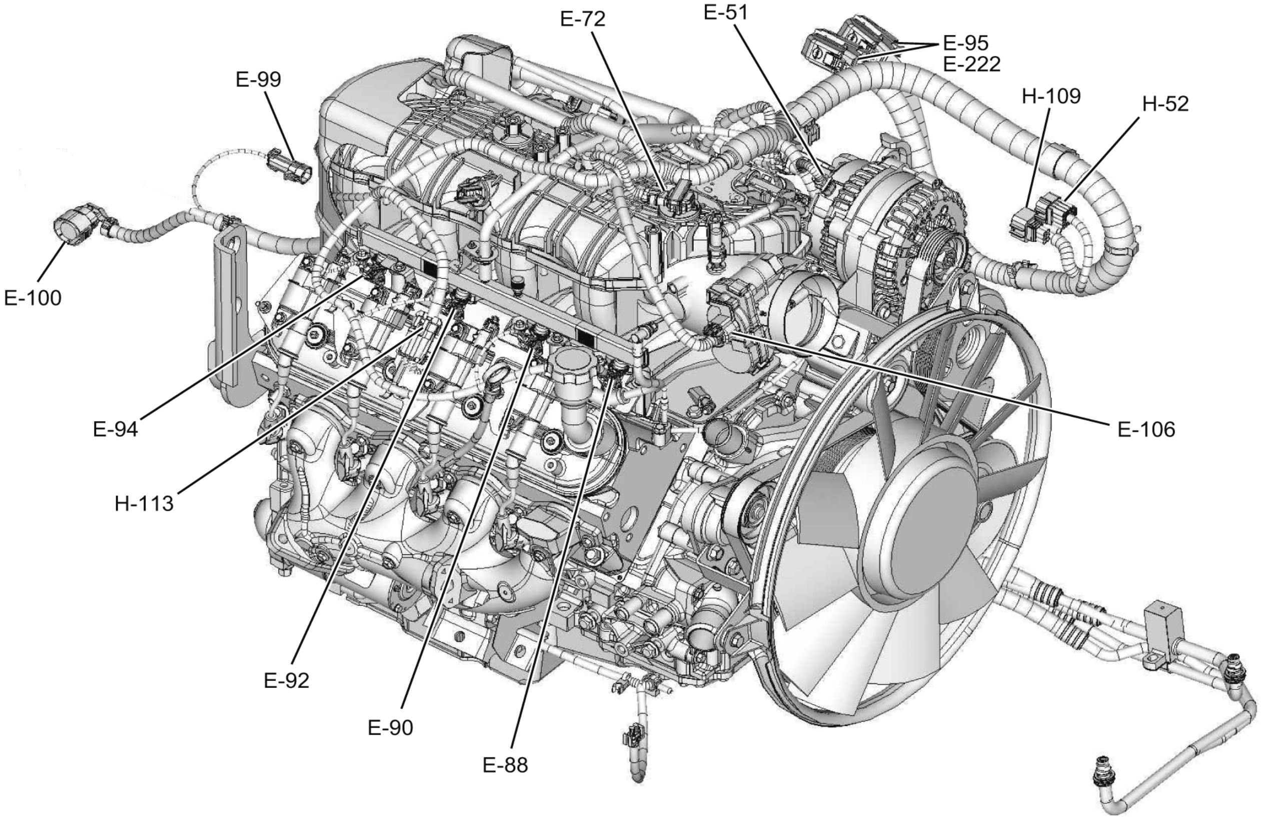
4956790

Harness Routing Views (Engine Harness Routing (1 of 4))


DETAIL A
E-104
E-72
E-51
E-96
DETAIL A
E-106
E-93
E-100
E-99
E-95
H-112
E-91
H-109
E-87
E-89
E-25
H-52
LNWB8DXF002201

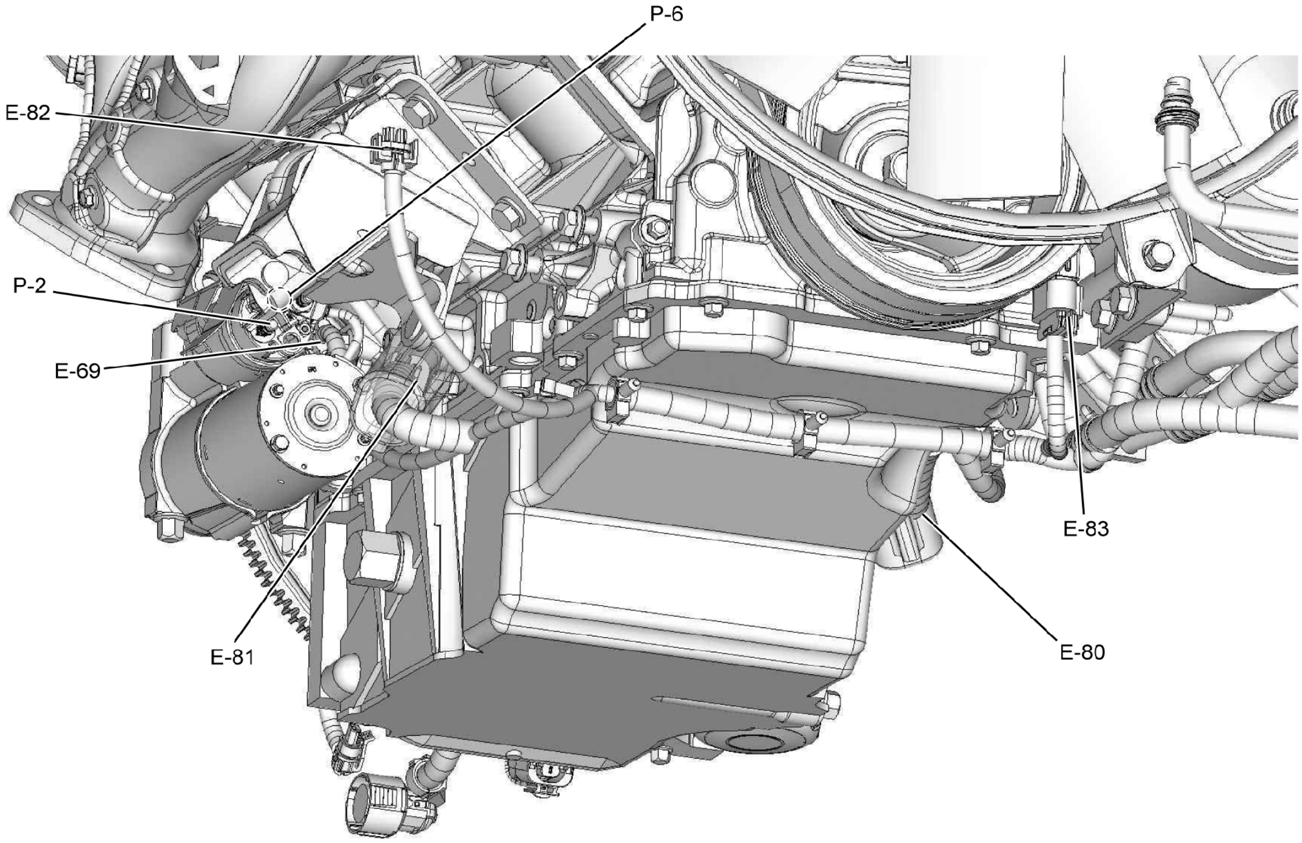
4956809

Harness Routing Views (Engine Harness Routing (2 of 4))


E-72
E-51
E-95
E-222
E-99
H-109
H-52
E-100
E-94
E-106
H-113
E-92
E-90
E-88
LNWJ80XF012601

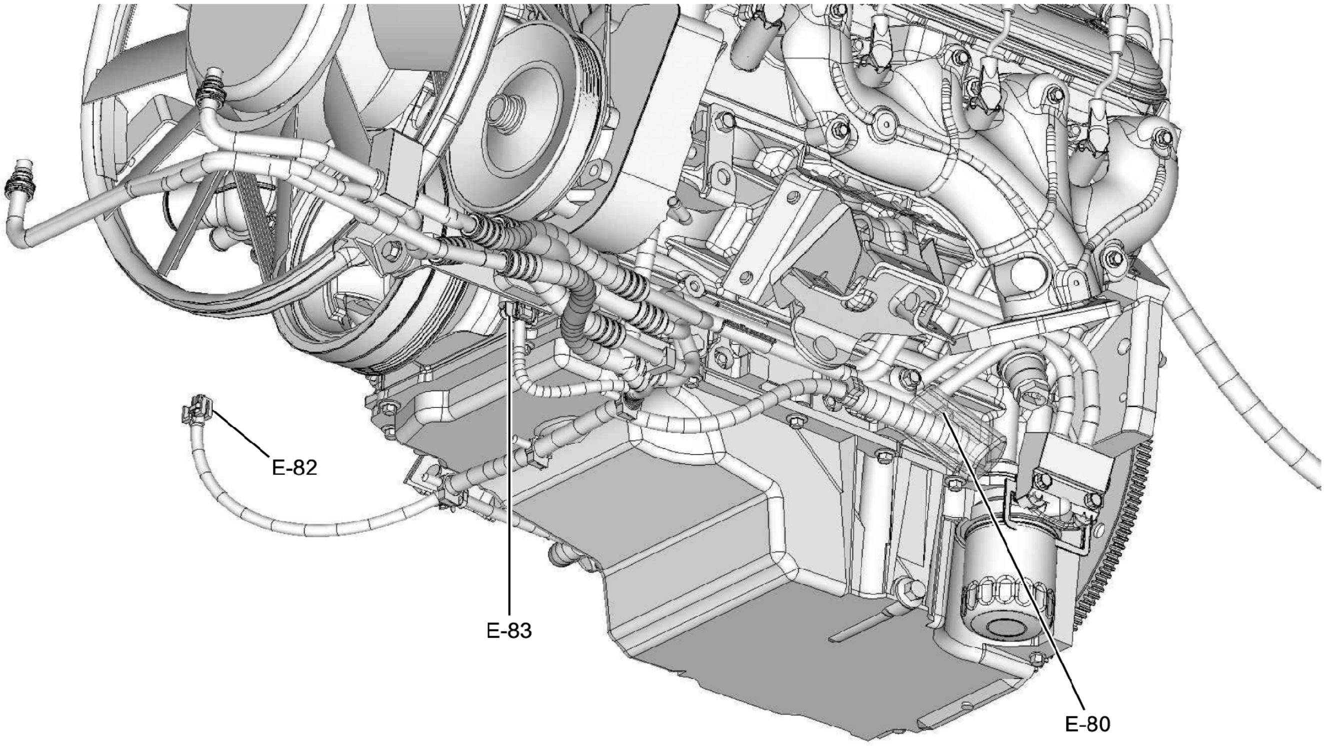
4956821

Harness Routing Views (Engine Harness Routing (3 of 4))


P-6
E-82
P-2
E-69
E-81
E-83
E-80

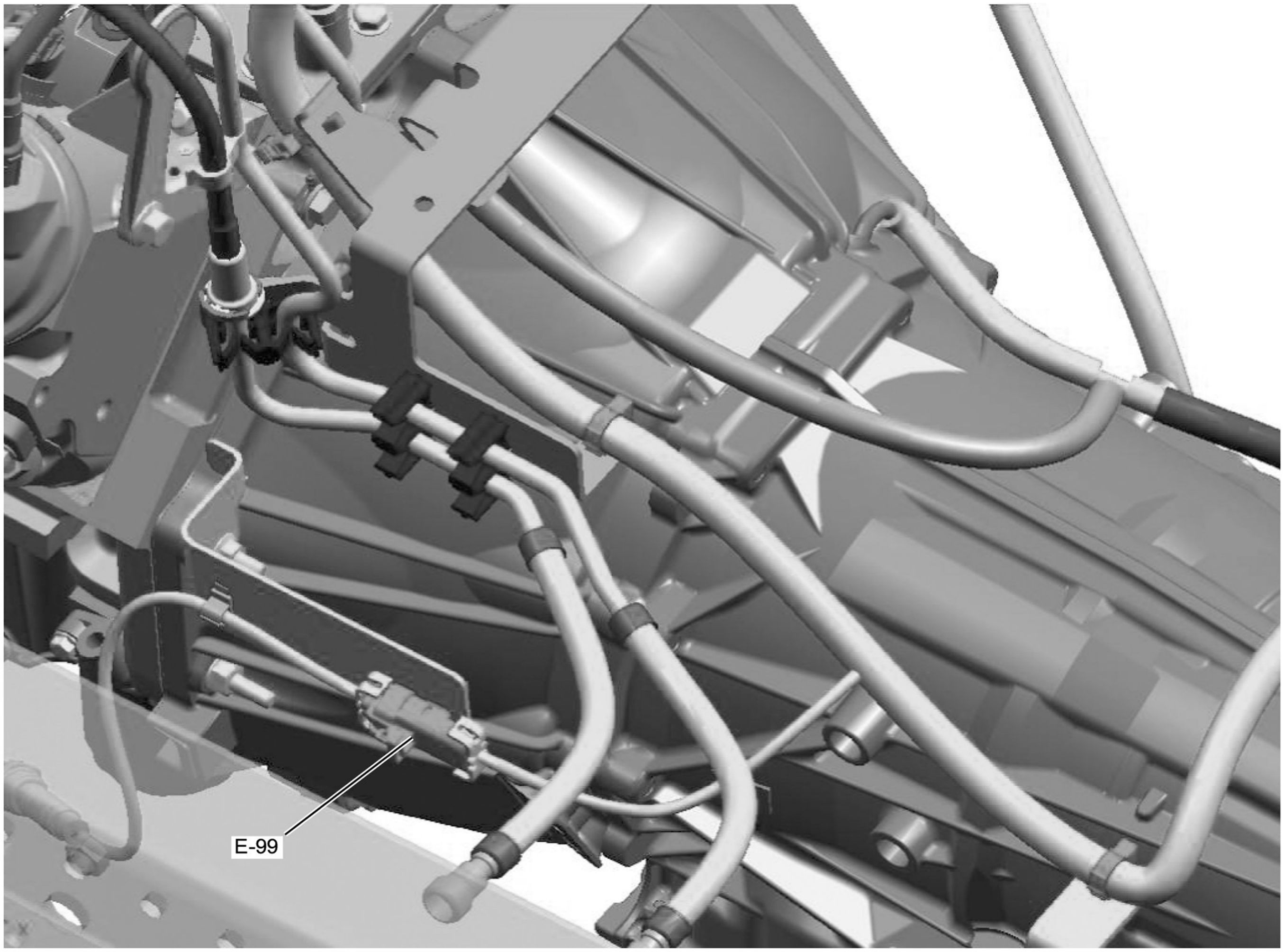
4556290

Harness Routing Views (Engine Harness Routing (4 of 4))



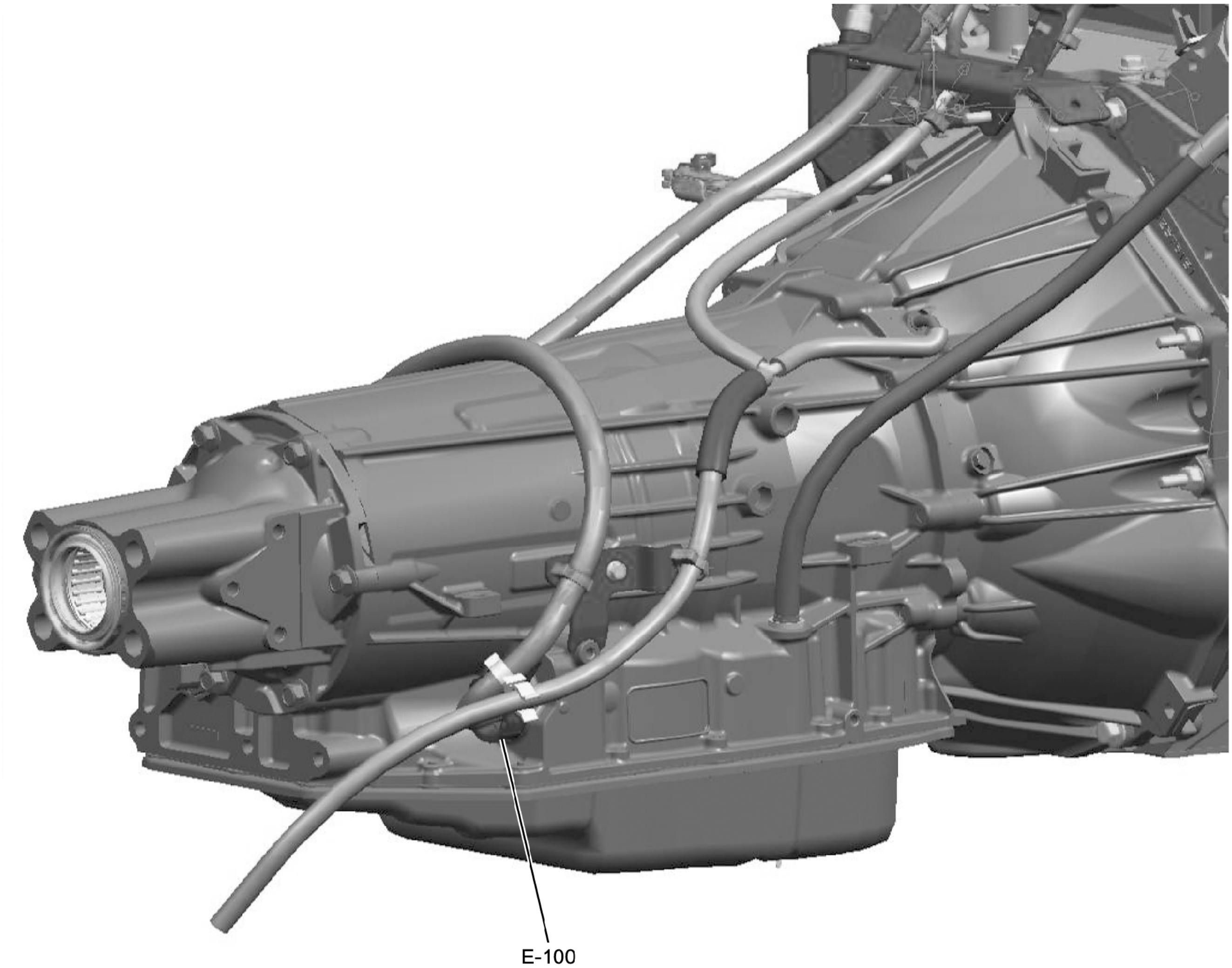
4556295

Harness Routing Views (Mission Harness Routing (1 of 2))



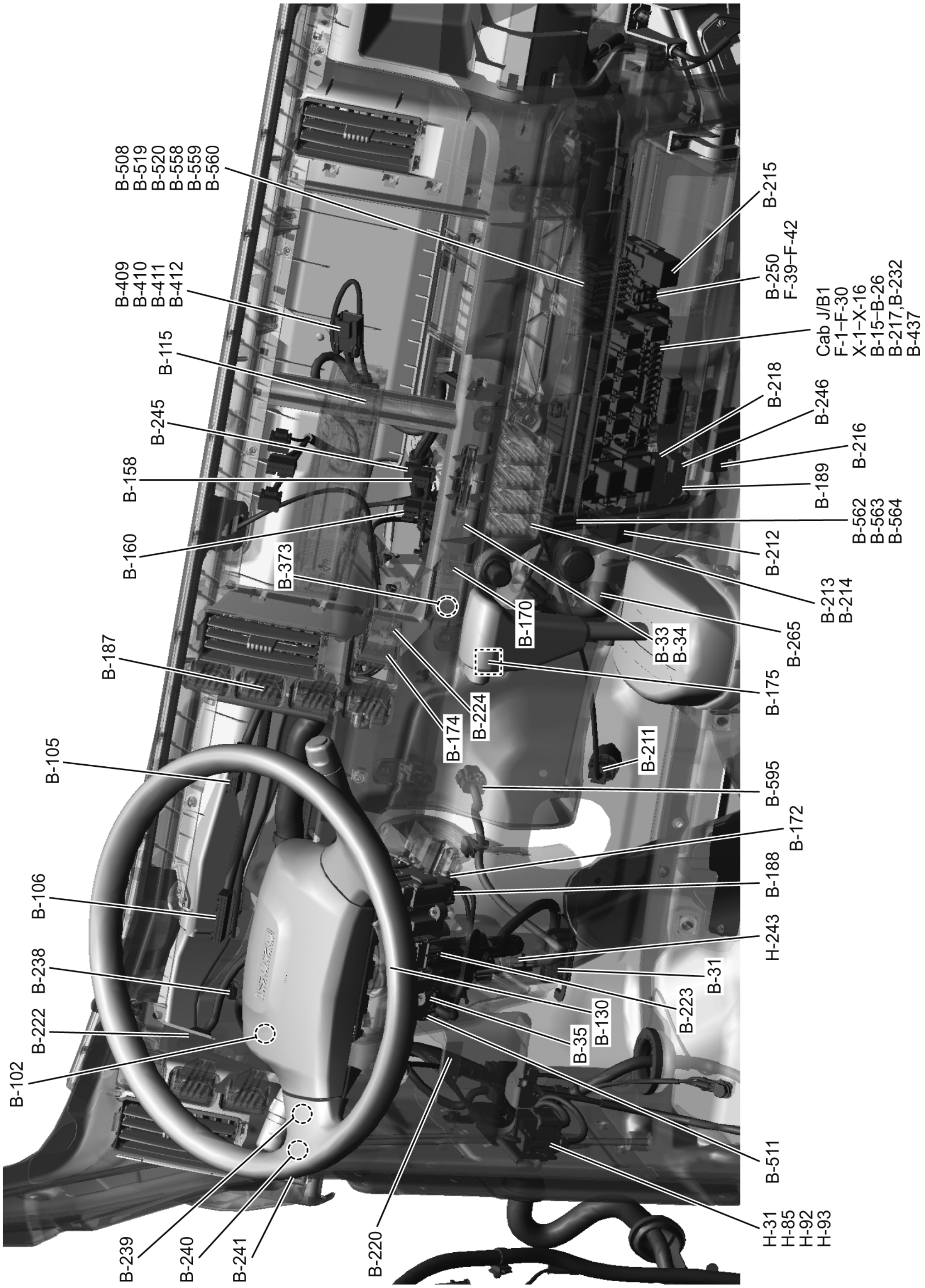
4556303

Harness Routing Views (Mission Harness Routing (2 of 2))



4556311

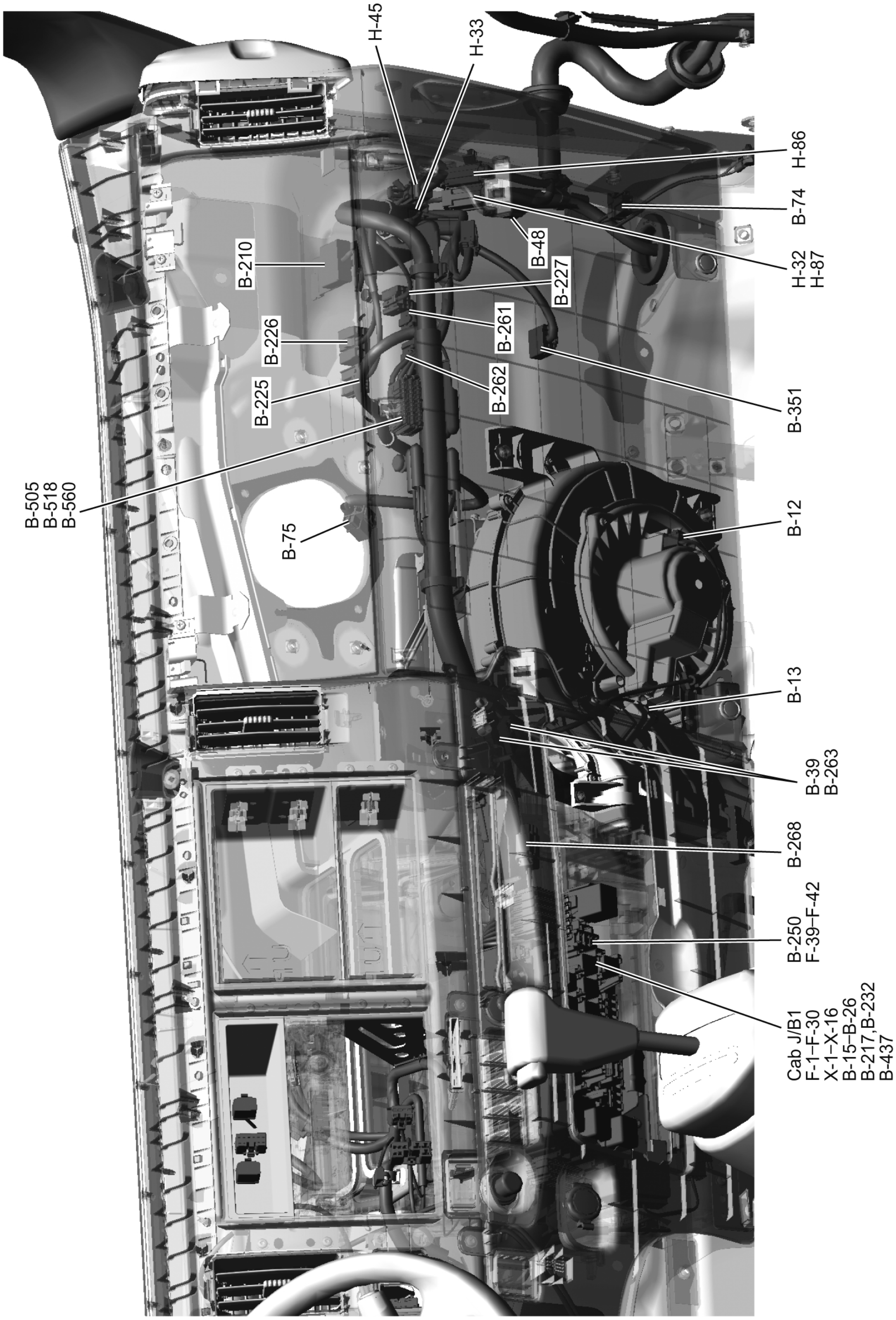
Harness Routing Views (Instrument Panel Harness Routing (1 of 2))


B-508
B-519
B-520
B-558
B-559
B-560
B-409
B-410
B-411
B-412
B-115
B-245
B-158
B-160
B-373
B-187
B-105
B-106
B-238
B-222
B-102
B-239
B-240
B-241
B-220
B-174
B-224
B-170
B-33
B-34
B-175
B-211
B-595
B-172
B-188
H-243
B-31
B-223
B-130
B-35
B-511
H-31
H-85
H-92
H-93
B-215
B-250
F-39–F-42
Cab J/B1
F-1–F-30
X-1–X-16
B-15–B-26
B-217,B-232
B-437
B-218
B-246
B-216
B-189
B-562
B-563
B-564
B-212
B-213
B-214
B-265

LNWJ80XF012201

4956838

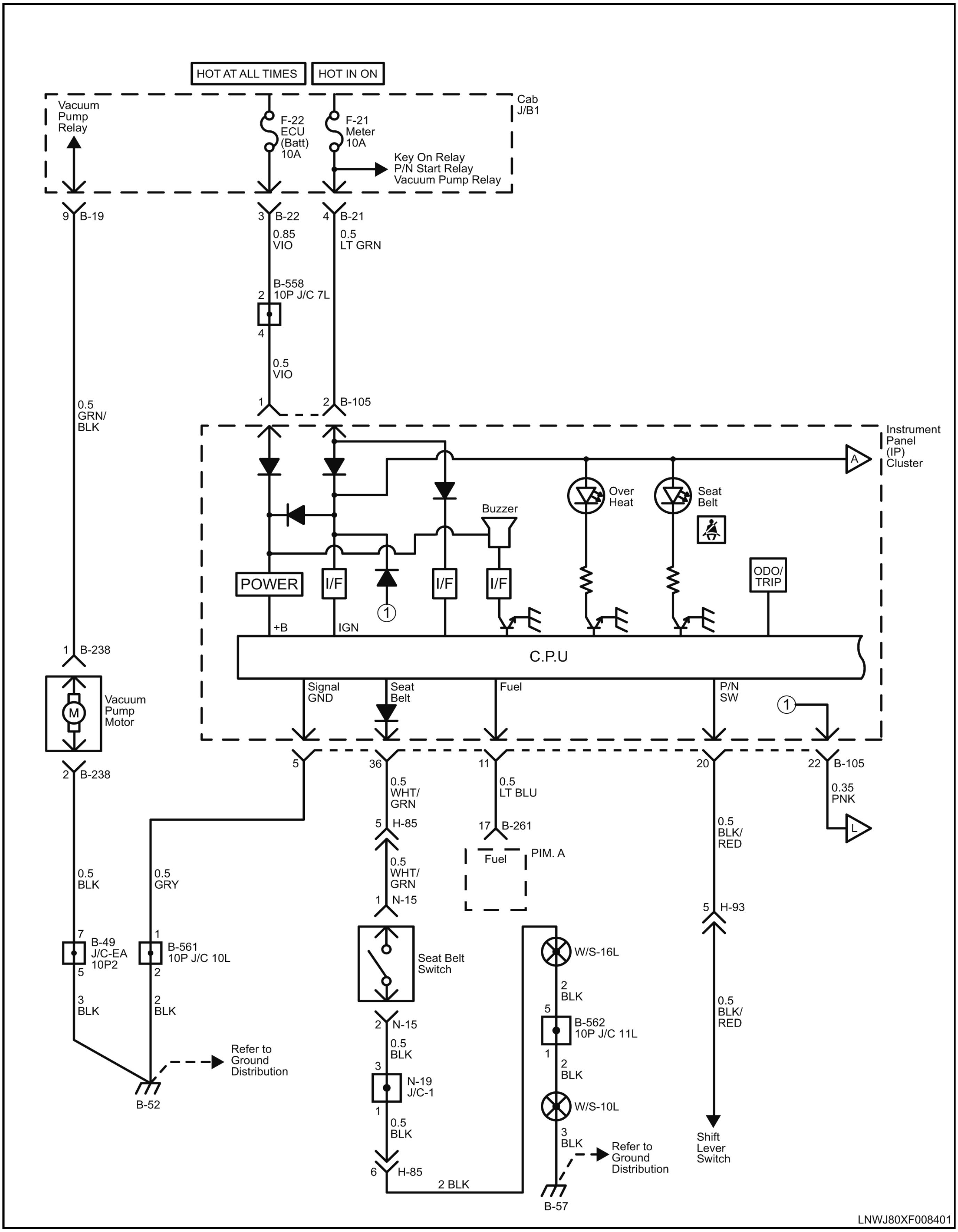
Harness Routing Views (Instrument Panel Harness Routing (2 of 2))


H-45
H-33
H-86
B-74
B-48
H-32
H-87
B-227
B-210
B-261
B-226
B-351
B-262
B-225
B-505
B-518
B-560
B-75
B-12
B-13
B-39
B-263
B-268
B-250
F-39–F-42
Cab J/B1
F-1–F-30
X-1–X-16
B-15–B-26
B-217,B-232
B-437

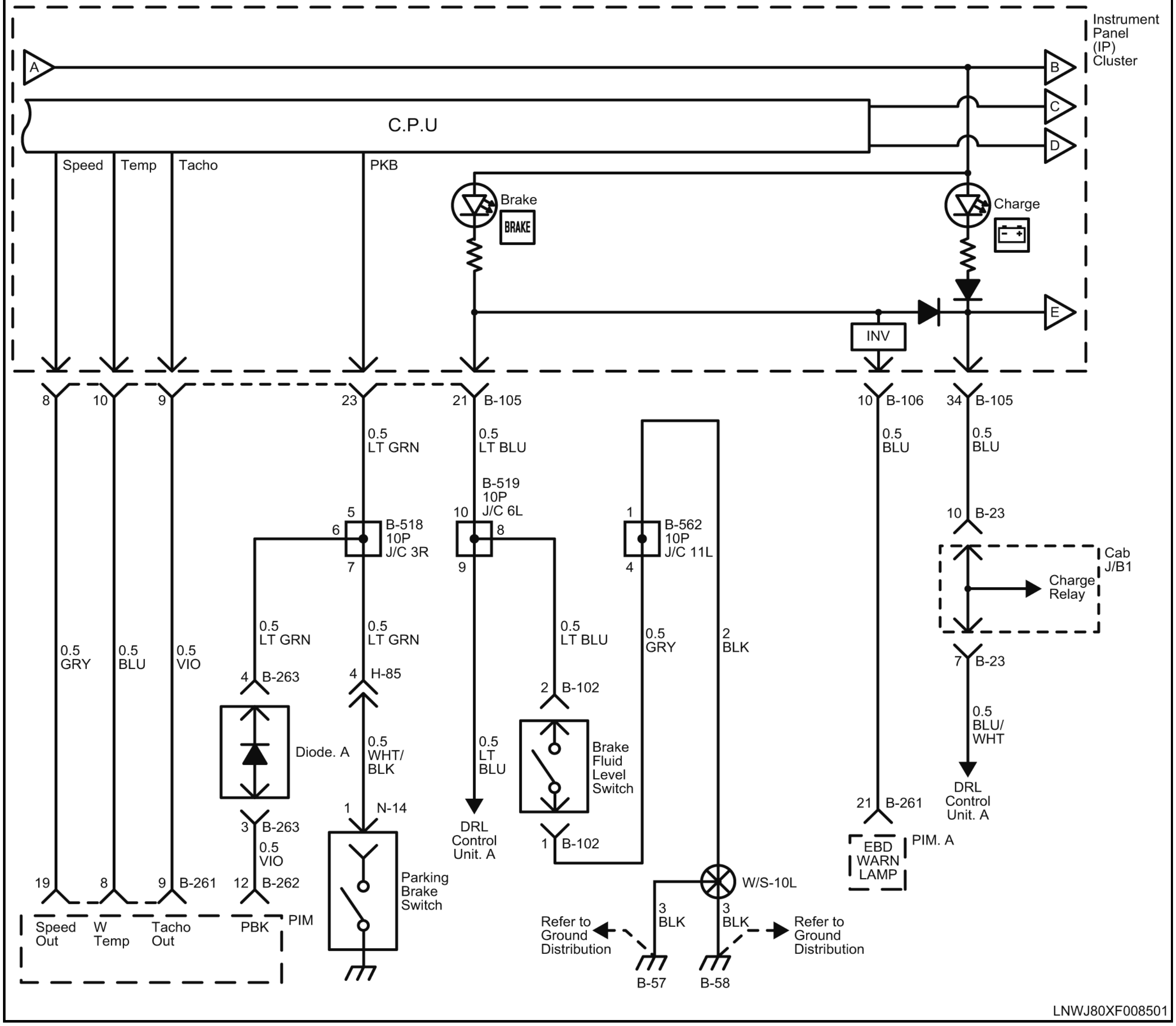
LNWJ80XF012301

4956857

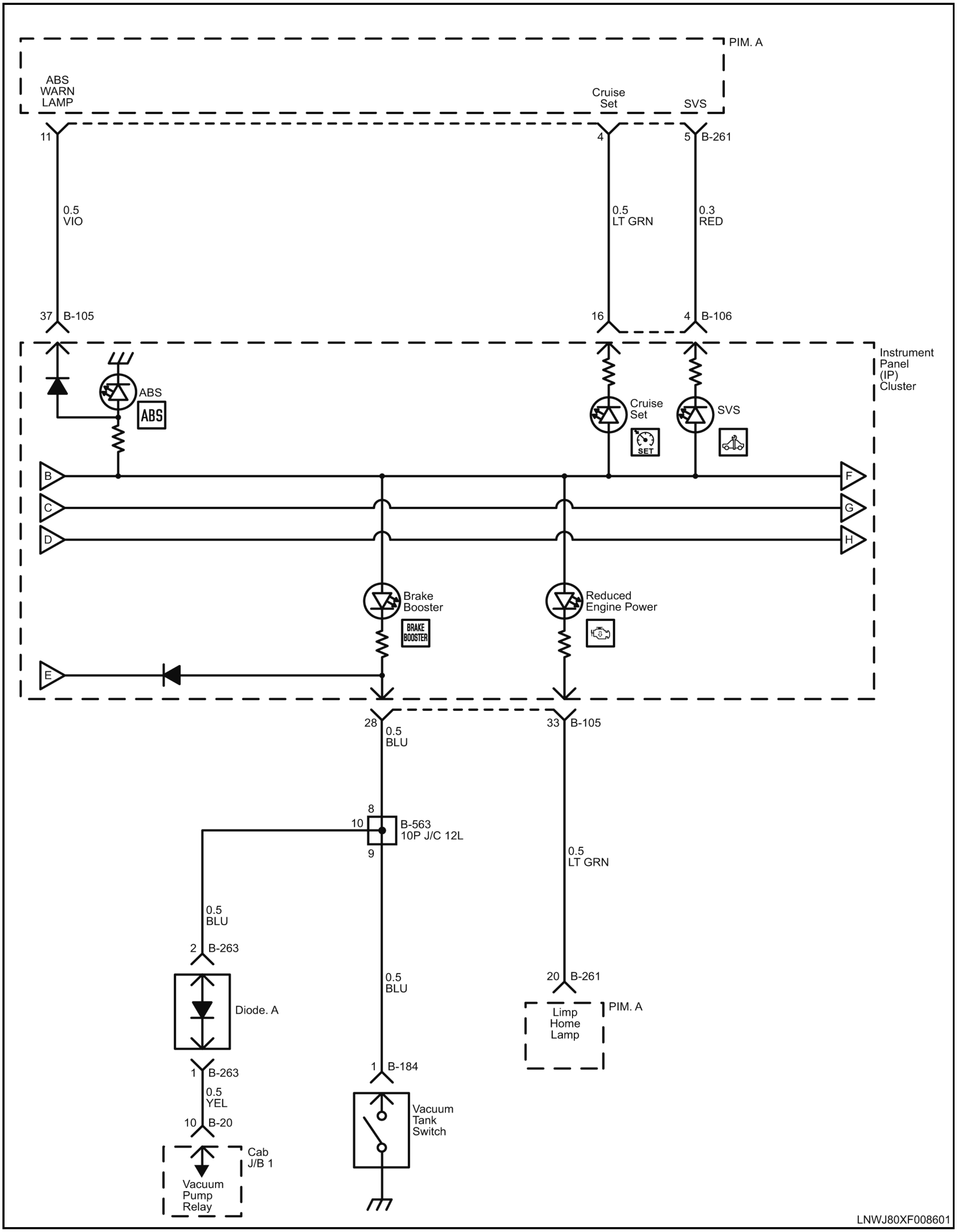
Instrument Cluster Schematics


HOT AT ALL TIMES
HOT IN ON
Vacuum Pump Relay
F-22 ECU (Batt) 10A
F-21 Meter 10A
Cab J/B1
Key On Relay
P/N Start Relay
Vacuum Pump Relay
9 B-19
3 B-22
4 B-21
0.85 VIO
0.5 LT GRN
B-558
2 10P J/C 7L
4
0.5 VIO
0.5 GRN/ BLK
1
2 B-105
Instrument Panel (IP) Cluster
A
Over Heat
Seat Belt
Buzzer
POWER
I/F
I/F
I/F
ODO/ TRIP
1
+B
IGN
C.P.U
1 B-238
Vacuum Pump Motor
M
2 B-238
Signal GND
Seat Belt
Fuel
P/N SW
1
5
36
11
20
22 B-105
0.5 WHT/ GRN
0.5 LT BLU
0.35 PNK
L
5 H-85
17 B-261
Fuel
PIM. A
0.5 BLK/ RED
0.5 WHT/ GRN
1 N-15
5 H-93
0.5 BLK
0.5 GRY
7 B-49 J/C-EA 10P2 5
1 B-561 10P J/C 10L 2
3 BLK
2 BLK
Seat Belt Switch
W/S-16L
2 BLK
5 B-562 10P J/C 11L 1
2 BLK
W/S-10L
3 BLK
0.5 BLK/ RED
2 N-15
0.5 BLK
3 N-19 J/C-1 1
0.5 BLK
6 H-85
2 BLK
Refer to Ground Distribution
B-52
Refer to Ground Distribution
B-57
Shift Lever Switch
LNWJ80XF008401

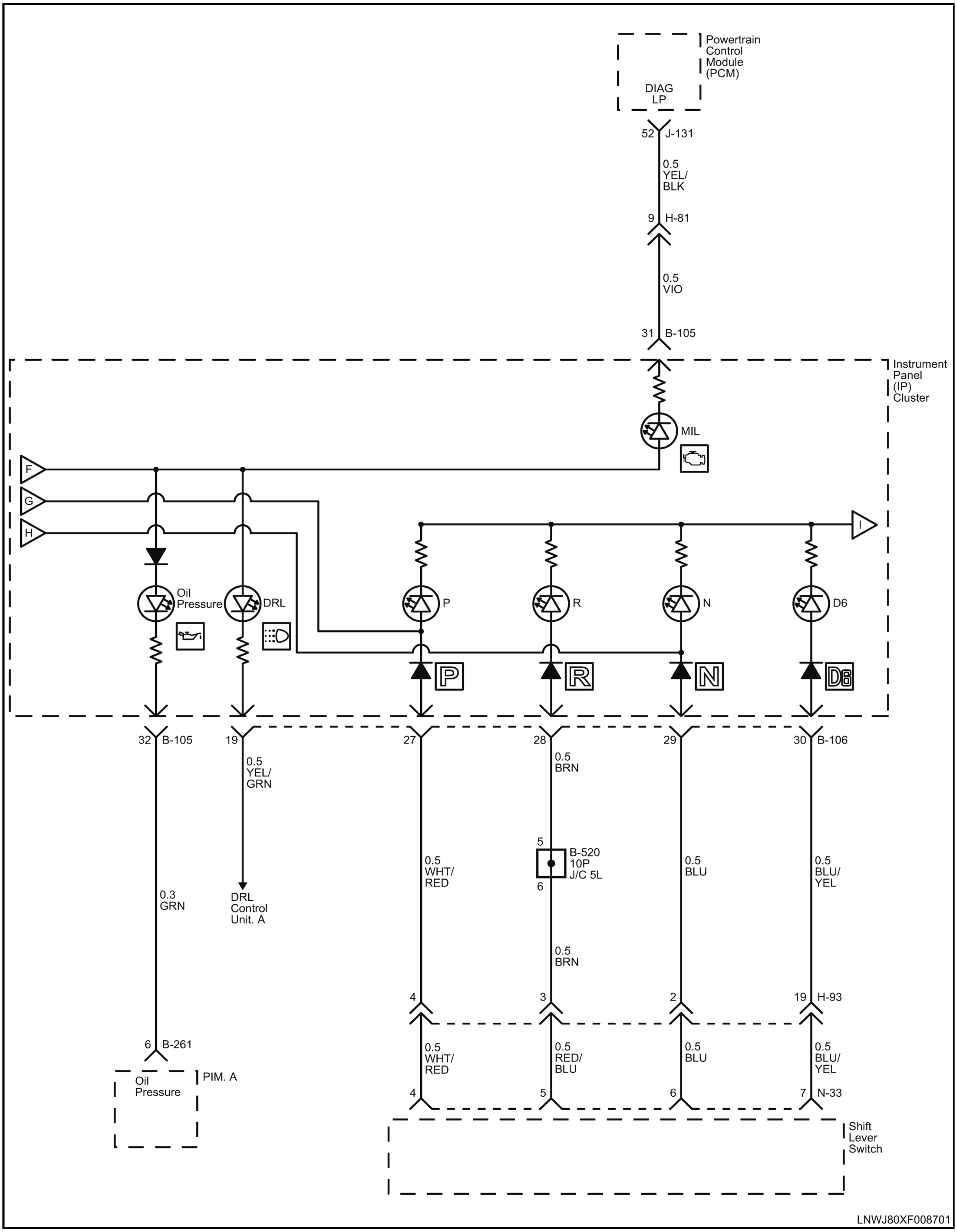
4957295


Instrument Panel (IP) Cluster
A
B
C
D
E
C.P.U
Speed
Temp
Tacho
PKB
Brake
BRAKE
Charge
INV
8
10
9
23
21
B-105
10
B-106
34
B-105
0.5 LT GRN
0.5 LT BLU
B-519 10P J/C 6L
0.5 BLU
0.5 BLU
5
6
B-518 10P J/C 3R
7
10
8
9
1
B-562 10P J/C 11L
4
10
B-23
Cab J/B1
Charge Relay
7
B-23
0.5 GRY
0.5 BLU
0.5 VIO
0.5 LT GRN
0.5 LT GRN
0.5 LT BLU
0.5 GRY
2 BLK
4
B-263
4
H-85
2
B-102
Diode. A
0.5 WHT/ BLK
0.5 LT BLU
Brake Fluid Level Switch
0.5 BLU/ WHT
DRL Control Unit. A
1
N-14
3
B-263
0.5 VIO
DRL Control Unit. A
1
B-102
21
B-261
EBD WARN LAMP
PIM. A
19
8
9
B-261
12
B-262
PIM
Speed Out
W Temp
Tacho Out
PBK
Parking Brake Switch
W/S-10L
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
B-57
B-58
LNWJ80XF008501

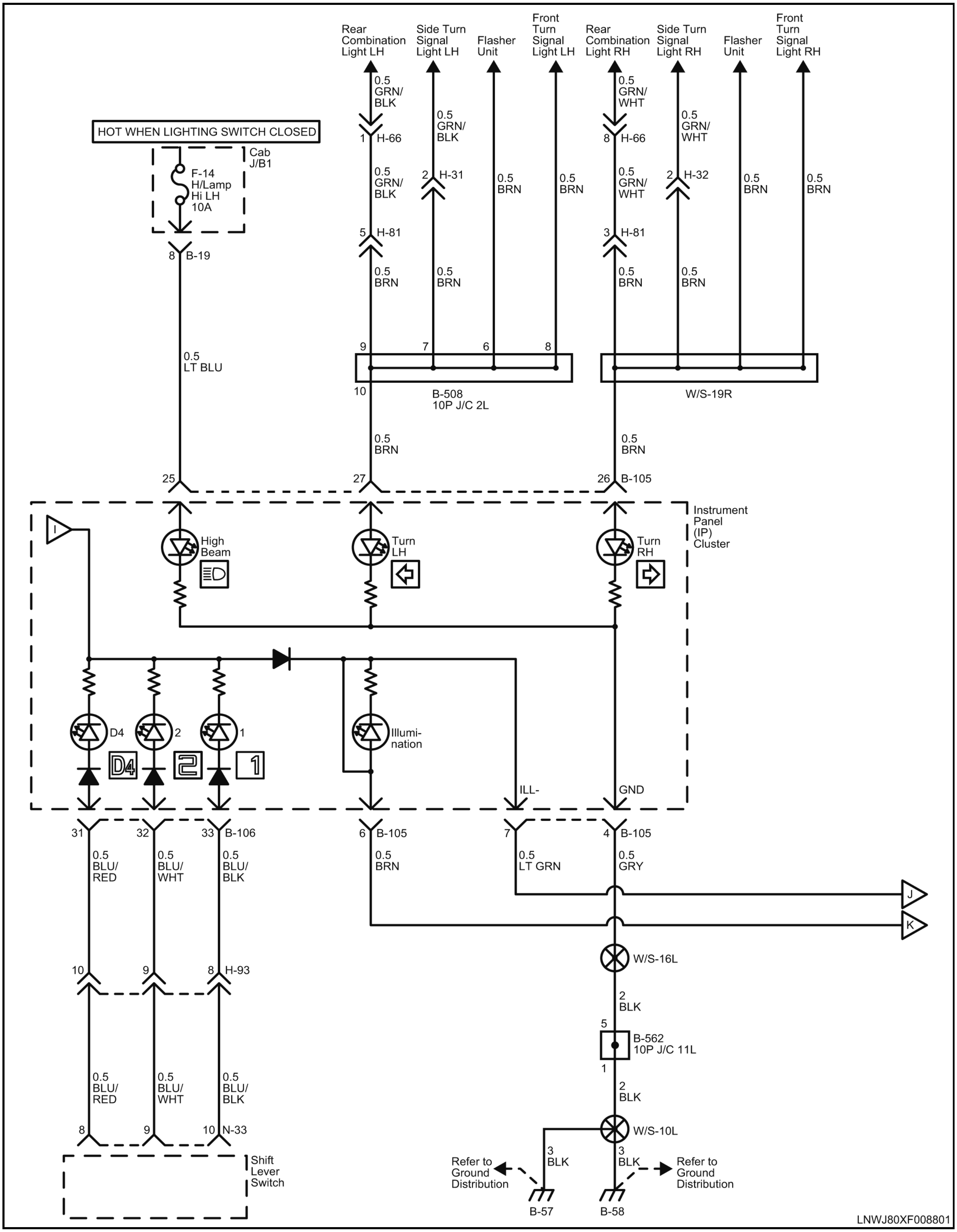
4957297


PIM. A
ABS WARN LAMP
Cruise Set
SVS
11
4
5
B-261
0.5 VIO
0.5 LT GRN
0.3 RED
37
B-105
16
4
B-106
Instrument Panel (IP) Cluster
ABS
ABS
Cruise Set
SET
SVS
B
C
D
F
G
H
Brake Booster
BRAKE BOOSTER
Reduced Engine Power
E
28
0.5 BLU
33
B-105
8
10
B-563
10P J/C 12L
9
0.5 LT GRN
0.5 BLU
2
B-263
Diode. A
0.5 BLU
20
B-261
PIM. A
Limp Home Lamp
1
B-263
0.5 YEL
10
B-20
Cab J/B 1
Vacuum Pump Relay
1
B-184
Vacuum Tank Switch
LNWJ80XF008601

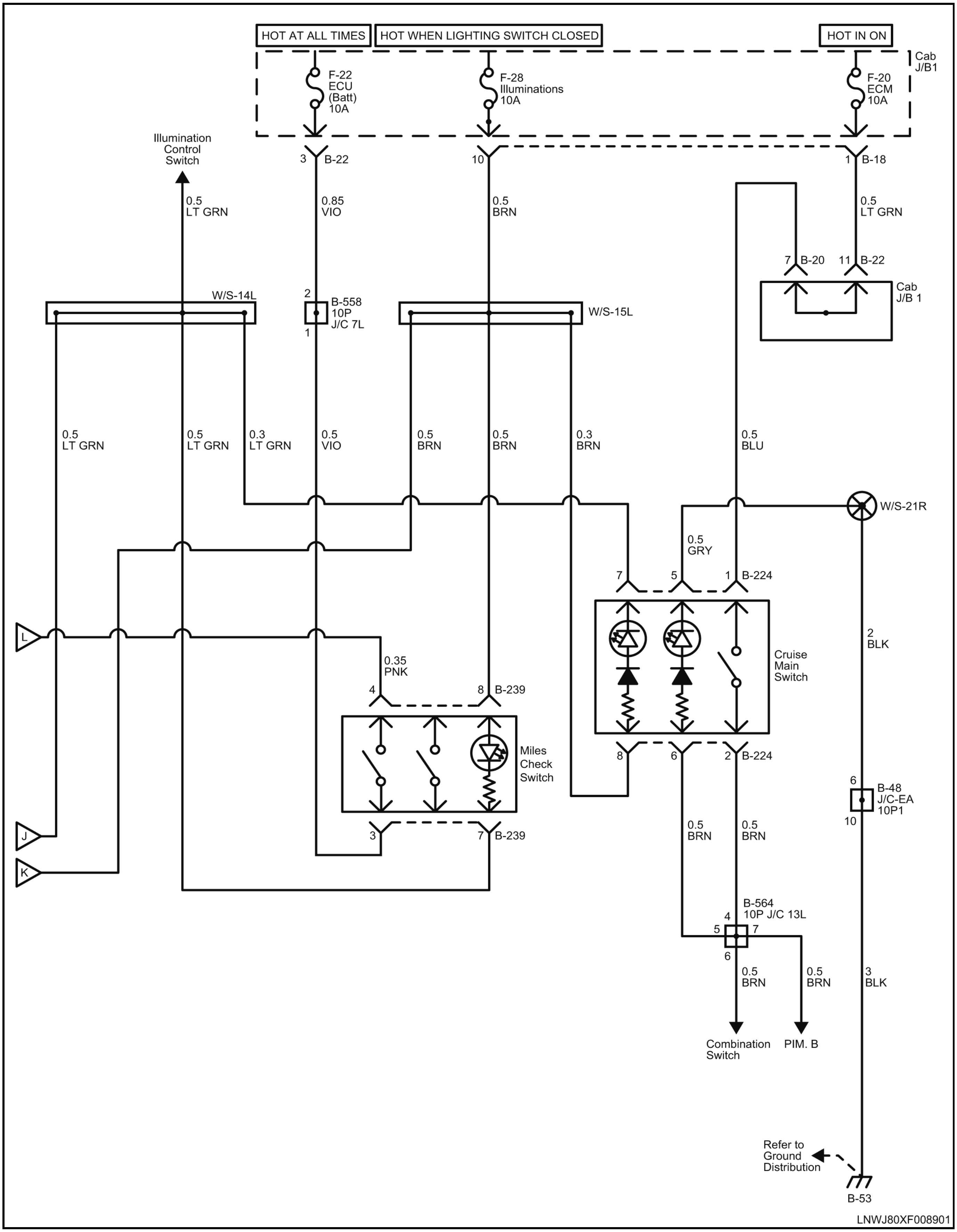
4957301


Powertrain Control Module (PCM)
DIAG LP
52 J-131
0.5 YEL/ BLK
9 H-81
0.5 VIO
31 B-105
Instrument Panel (IP) Cluster
MIL
F
G
H
I
Oil Pressure
DRL
P
R
N
D6
32 B-105
19
0.5 YEL/ GRN
27
28
0.5 BRN
29
30 B-106
5
B-520 10P J/C 5L
6
0.5 WHT/ RED
0.5 BLU
0.5 BLU/ YEL
0.3 GRN
DRL Control Unit. A
0.5 BRN
4
3
2
19 H-93
0.5 WHT/ RED
0.5 RED/ BLU
0.5 BLU
0.5 BLU/ YEL
4
5
6
7 N-33
6 B-261
Oil Pressure
PIM. A
Shift Lever Switch
LNWJ80XF008701

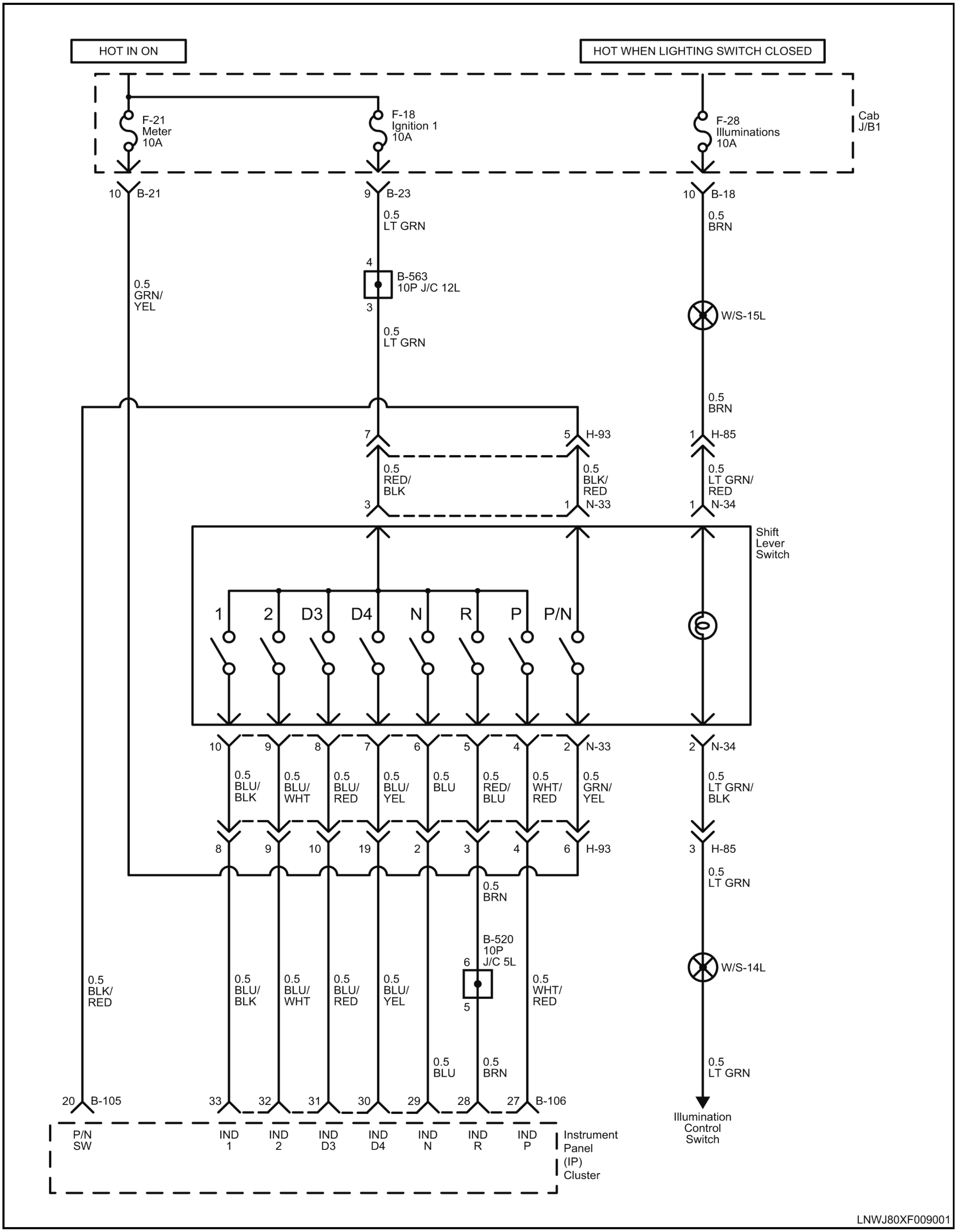
4957303


Rear Combination Light LH
Side Turn Signal Light LH
Flasher Unit
Front Turn Signal Light LH
Rear Combination Light RH
Side Turn Signal Light RH
Flasher Unit
Front Turn Signal Light RH
0.5 GRN/BLK
0.5 GRN/WHT
0.5 GRN/BLK
0.5 GRN/WHT
1 H-66
8 H-66
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-14 H/Lamp Hi LH 10A
2 H-31
2 H-32
0.5 BRN
5 H-81
3 H-81
8 B-19
0.5 LT BLU
9
7
6
8
10
B-508 10P J/C 2L
W/S-19R
25
27
26 B-105
Instrument Panel (IP) Cluster
I
High Beam
Turn LH
Turn RH
D4
2
1
Illumi- nation
ILL-
GND
31
32
33 B-106
6 B-105
7
4 B-105
0.5 BLU/RED
0.5 BLU/WHT
0.5 BLU/BLK
0.5 LT GRN
0.5 GRY
J
K
W/S-16L
2 BLK
5
B-562 10P J/C 11L
1
10
9
8 H-93
W/S-10L
8
9
10 N-33
Shift Lever Switch
Refer to Ground Distribution
3 BLK
B-57
B-58
LNWJ80XF008801

4957307

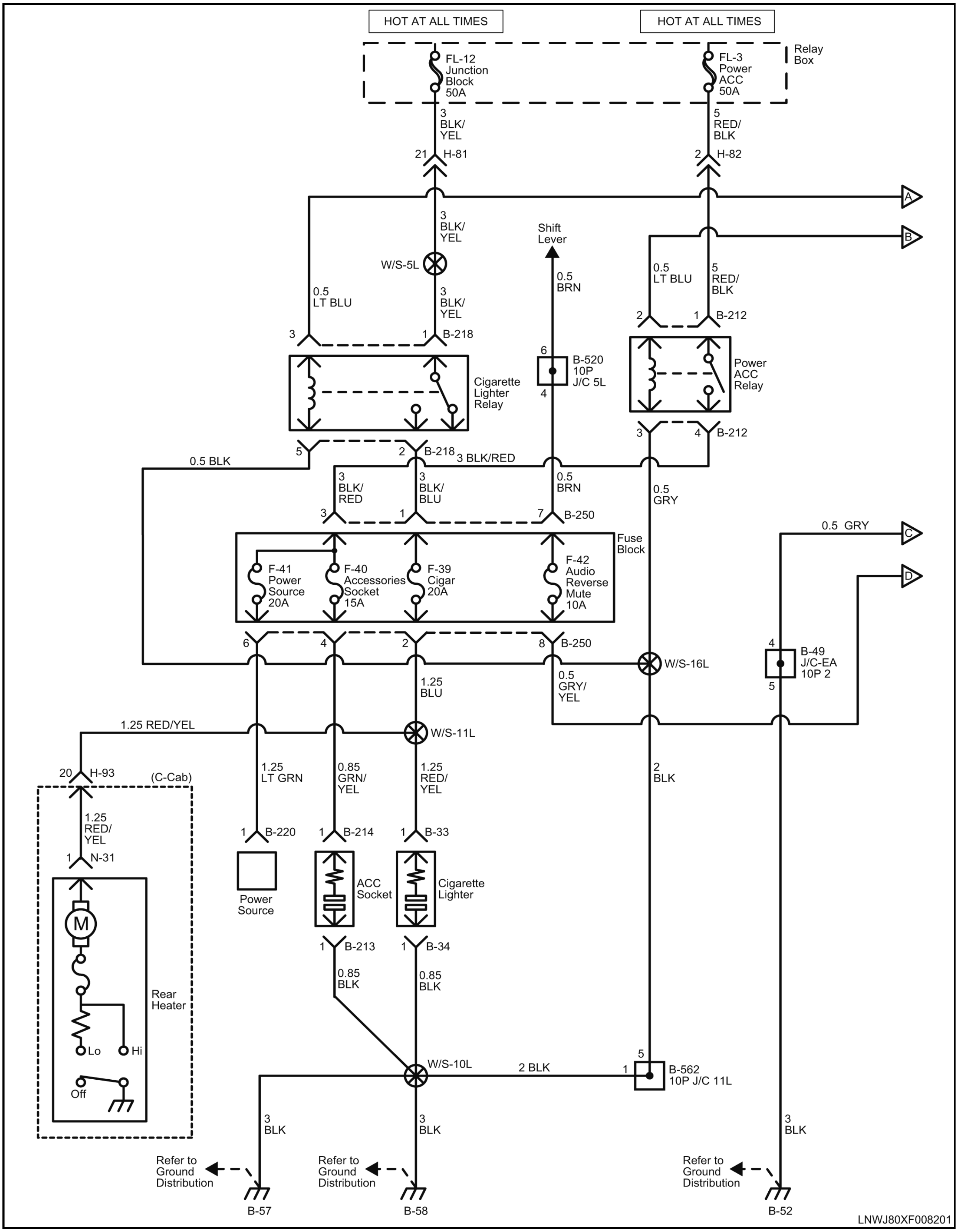

HOT AT ALL TIMES
HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ON
Cab J/B1
F-22 ECU (Batt) 10A
F-28 Illuminations 10A
F-20 ECM 10A
Illumination Control Switch
3 B-22
10
1 B-18
0.5 LT GRN
0.85 VIO
0.5 BRN
0.5 LT GRN
7 B-20
11 B-22
Cab J/B 1
W/S-14L
2 B-558 10P J/C 7L
1
W/S-15L
0.5 LT GRN
0.5 LT GRN
0.3 LT GRN
0.5 VIO
0.5 BRN
0.5 BRN
0.3 BRN
0.5 BLU
W/S-21R
0.5 GRY
7
5
1 B-224
L
0.35 PNK
4
8 B-239
Cruise Main Switch
2 BLK
Miles Check Switch
8
6
2 B-224
6 B-48 J/C-EA 10P1
10
J
3
7 B-239
K
0.5 BRN
0.5 BRN
B-564 10P J/C 13L
4
5
7
6
0.5 BRN
0.5 BRN
3 BLK
Combination Switch
PIM. B
Refer to Ground Distribution
B-53
LNWJ80XF008901

4957312

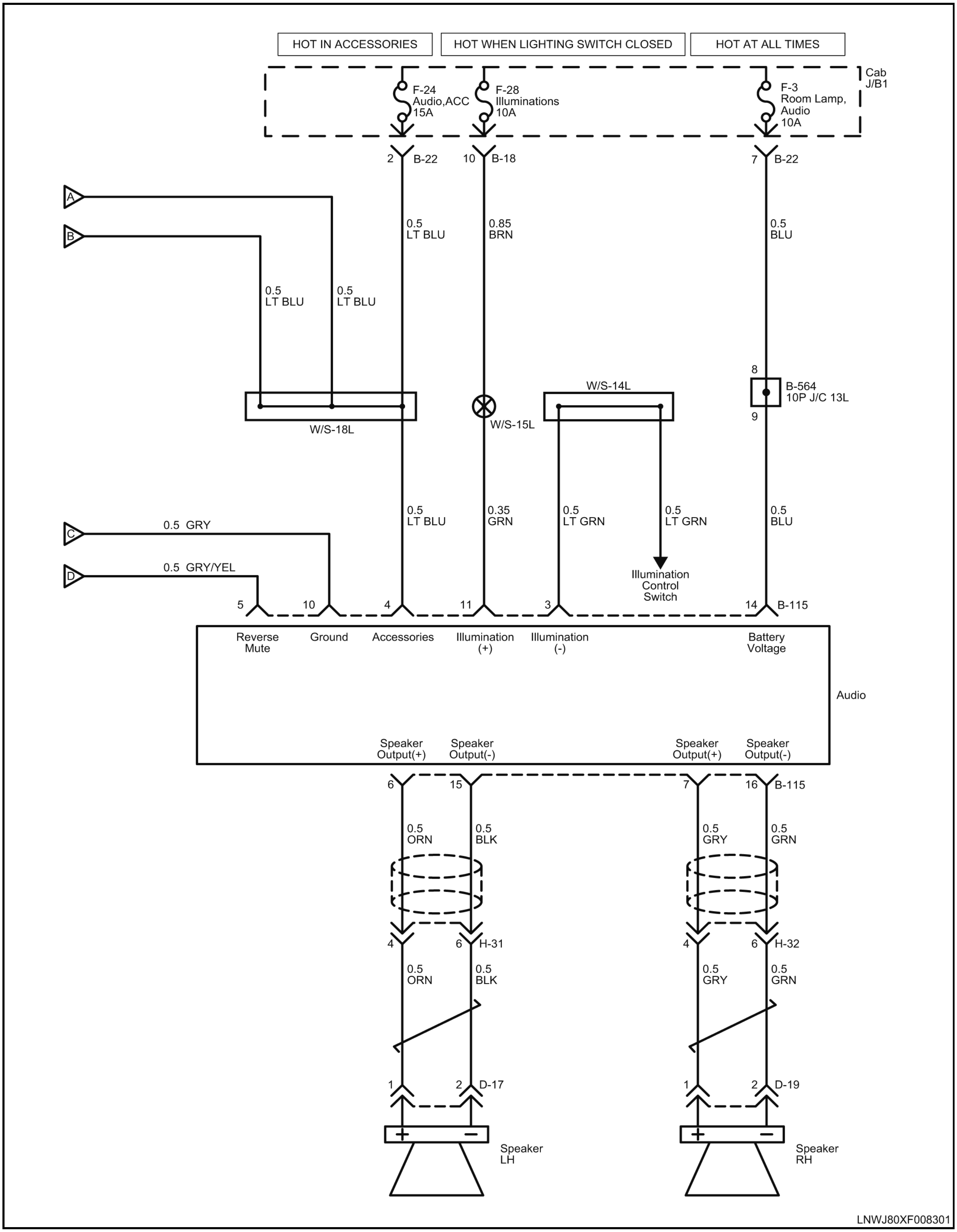

HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
F-21
Meter
10A
F-18
Ignition 1
10A
F-28
Illuminations
10A
Cab
J/B1
10 B-21
9 B-23
10 B-18
0.5
LT GRN
4
B-563
10P J/C 12L
3
0.5
LT GRN
0.5
GRN/
YEL
0.5
BRN
W/S-15L
0.5
BRN
7
5 H-93
1 H-85
0.5
RED/
BLK
0.5
BLK/
RED
0.5
LT GRN/
RED
3
1 N-33
1 N-34
Shift
Lever
Switch
1
2
D3
D4
N
R
P
P/N
10
9
8
7
6
5
4
2 N-33
2 N-34
0.5
BLU/
BLK
0.5
BLU/
WHT
0.5
BLU/
RED
0.5
BLU/
YEL
0.5
BLU
0.5
RED/
BLU
0.5
WHT/
RED
0.5
GRN/
YEL
0.5
LT GRN/
BLK
8
9
10
19
2
3
4
6 H-93
3 H-85
0.5
LT GRN
0.5
BRN
B-520
10P
J/C 5L
6
5
W/S-14L
0.5
BLK/
RED
0.5
BLU/
BLK
0.5
BLU/
WHT
0.5
BLU/
RED
0.5
BLU/
YEL
0.5
WHT/
RED
0.5
BLU
0.5
BRN
0.5
LT GRN
20 B-105
33
32
31
30
29
28
27 B-106
P/N
SW
IND
1
IND
2
IND
D3
IND
D4
IND
N
IND
R
IND
P
Instrument
Panel
(IP)
Cluster
Illumination
Control
Switch
LNWJ80XF009001

4957380

Radio and Cigarette Lighter Schematics

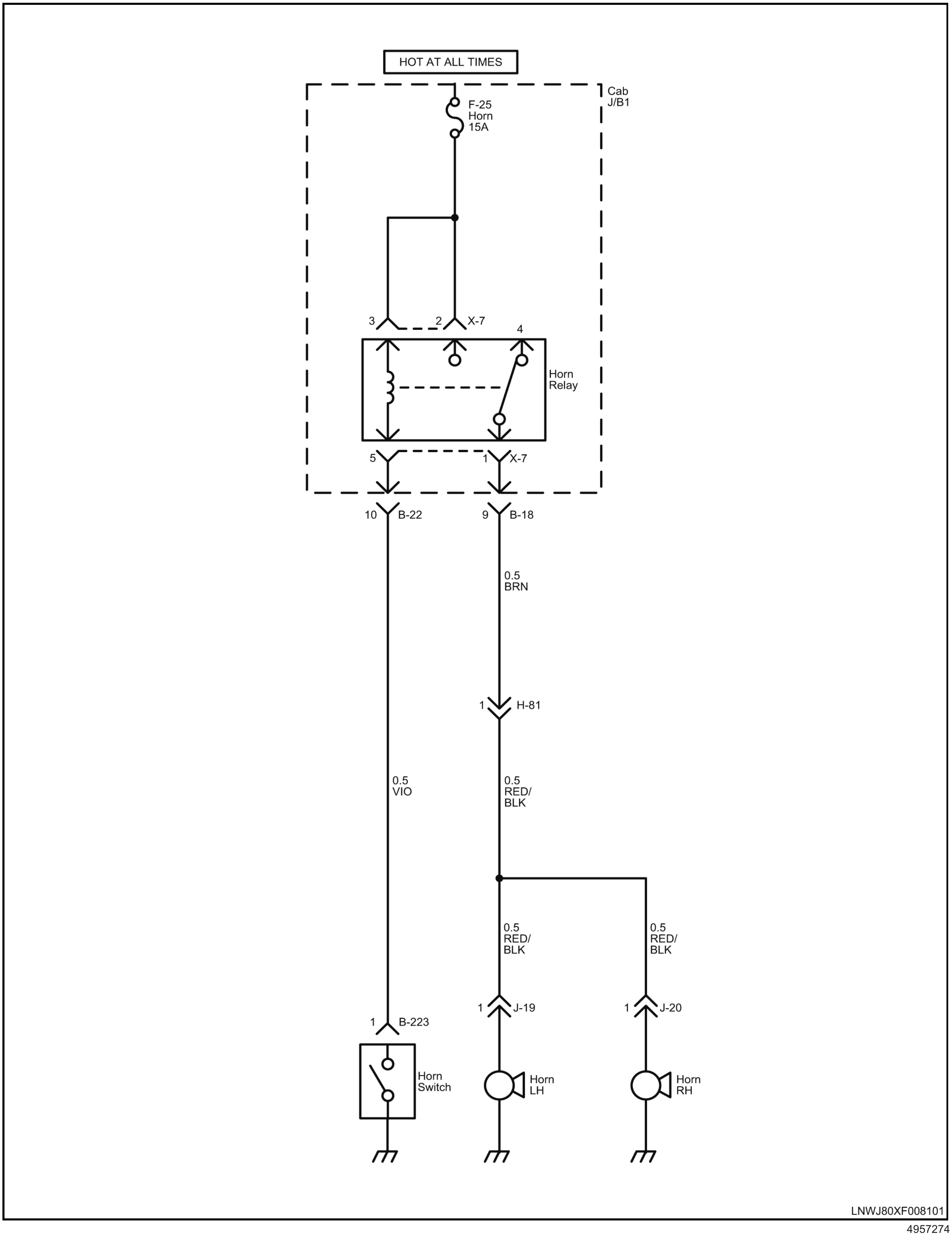

HOT AT ALL TIMES
HOT AT ALL TIMES
FL-12
Junction
Block
50A
FL-3
Power
ACC
50A
Relay
Box
3
BLK/
YEL
5
RED/
BLK
21
H-81
2
H-82
A
B
3
BLK/
YEL
W/S-5L
Shift
Lever
0.5
BRN
0.5
LT BLU
5
RED/
BLK
0.5
LT BLU
3
BLK/
YEL
2
1
B-212
3
1
B-218
6
B-520
10P
J/C 5L
4
Power
ACC
Relay
Cigarette
Lighter
Relay
3
4
B-212
0.5 BLK
5
2
B-218
3 BLK/RED
3
BLK/
RED
3
BLK/
BLU
0.5
BRN
0.5
GRY
3
1
7
B-250
0.5 GRY
C
D
Fuse
Block
F-41
Power
Source
20A
F-40
Accessories
Socket
15A
F-39
Cigar
20A
F-42
Audio
Reverse
Mute
10A
6
4
2
8
B-250
W/S-16L
4
B-49
J/C-EA
10P 2
5
1.25
BLU
0.5
GRY/
YEL
1.25 RED/YEL
W/S-11L
20
H-93
(C-Cab)
1.25
LT GRN
0.85
GRN/
YEL
1.25
RED/
YEL
2
BLK
1.25
RED/
YEL
1
N-31
1
B-220
1
B-214
1
B-33
Power
Source
ACC
Socket
Cigarette
Lighter
M
Rear
Heater
Lo
Hi
Off
1
B-213
1
B-34
0.85
BLK
0.85
BLK
W/S-10L
2 BLK
5
1
B-562
10P J/C 11L
3
BLK
3
BLK
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-57
B-58
B-52
LNWJ80XF008201

4957282


HOT IN ACCESSORIES
HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-24 Audio,ACC 15A
F-28 Illuminations 10A
F-3 Room Lamp, Audio 10A
2 B-22
10 B-18
7 B-22
A
B
0.5 LT BLU
0.5 LT BLU
0.5 LT BLU
0.85 BRN
0.5 BLU
8
B-564 10P J/C 13L
9
W/S-18L
W/S-15L
W/S-14L
0.5 LT BLU
0.35 GRN
0.5 LT GRN
0.5 LT GRN
0.5 BLU
Illumination Control Switch
C
0.5 GRY
D
0.5 GRY/YEL
5
10
4
11
3
14 B-115
Reverse Mute
Ground
Accessories
Illumination (+)
Illumination (-)
Battery Voltage
Audio
Speaker Output(+)
Speaker Output(-)
Speaker Output(+)
Speaker Output(-)
6
15
7
16 B-115
0.5 ORN
0.5 BLK
0.5 GRY
0.5 GRN
4
6 H-31
4
6 H-32
0.5 ORN
0.5 BLK
0.5 GRY
0.5 GRN
1
2 D-17
1
2 D-19
+
−
Speaker LH
+
−
Speaker RH
LNWJ80XF008301

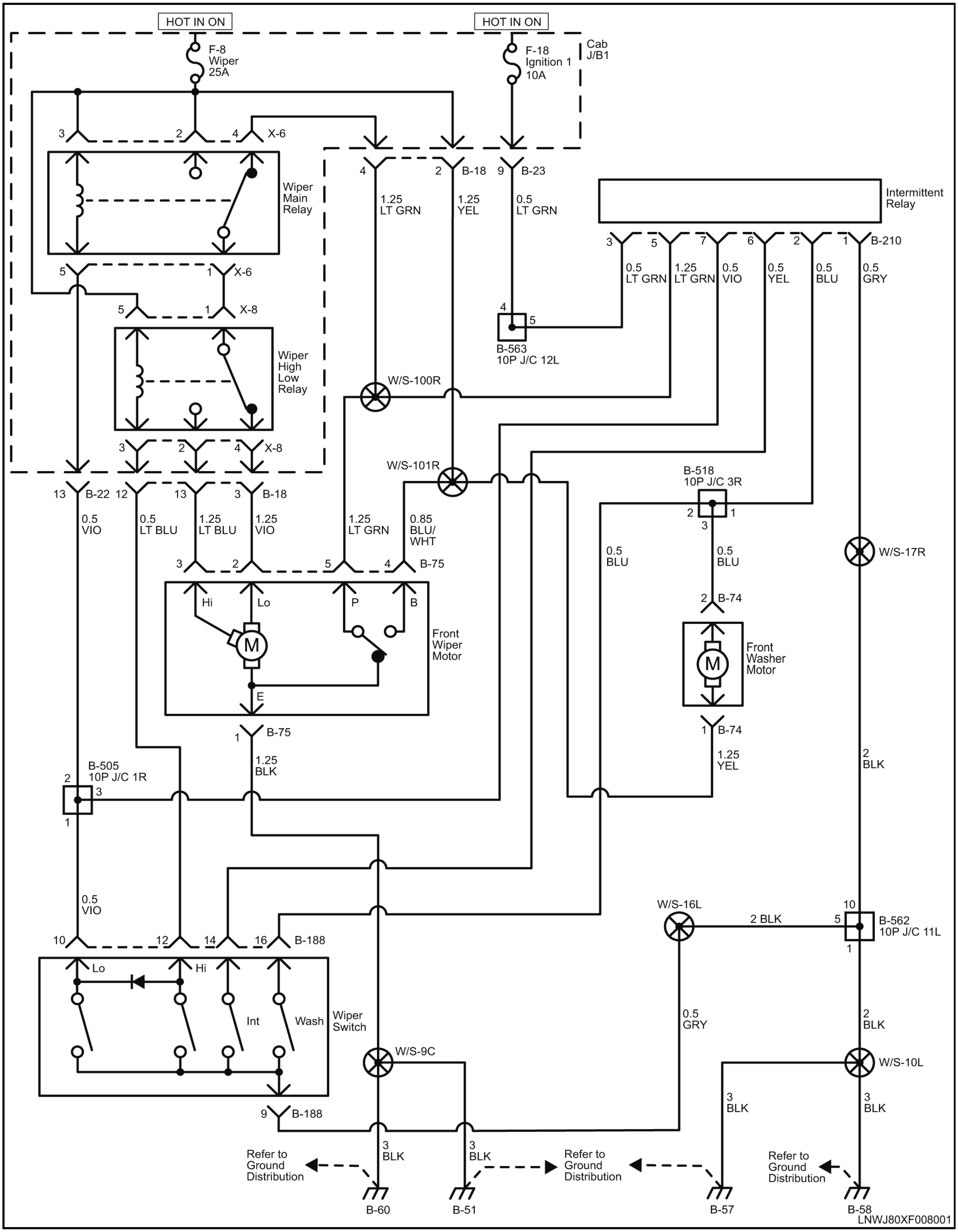
4957283

Horn Schematics

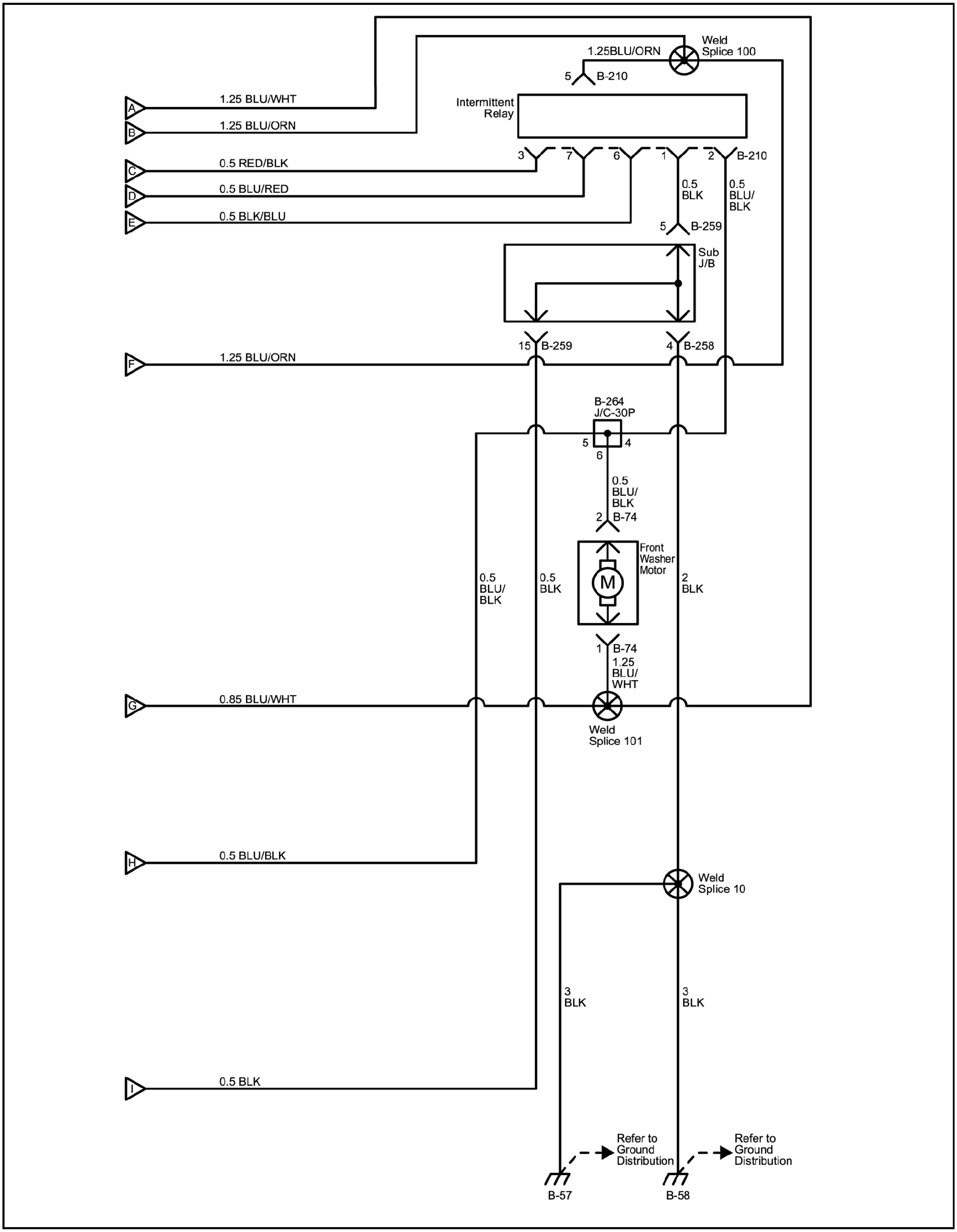

HOT AT ALL TIMES
Cab J/B1
F-25 Horn 15A
3
2
X-7
4
Horn Relay
5
1
X-7
10
B-22
9
B-18
0.5 BRN
1
H-81
0.5 VIO
0.5 RED/ BLK
0.5 RED/ BLK
0.5 RED/ BLK
1
J-19
1
J-20
1
B-223
Horn Switch
Horn LH
Horn RH
LNWJ80XF008101

4957274

Wiper/Washer Schematics

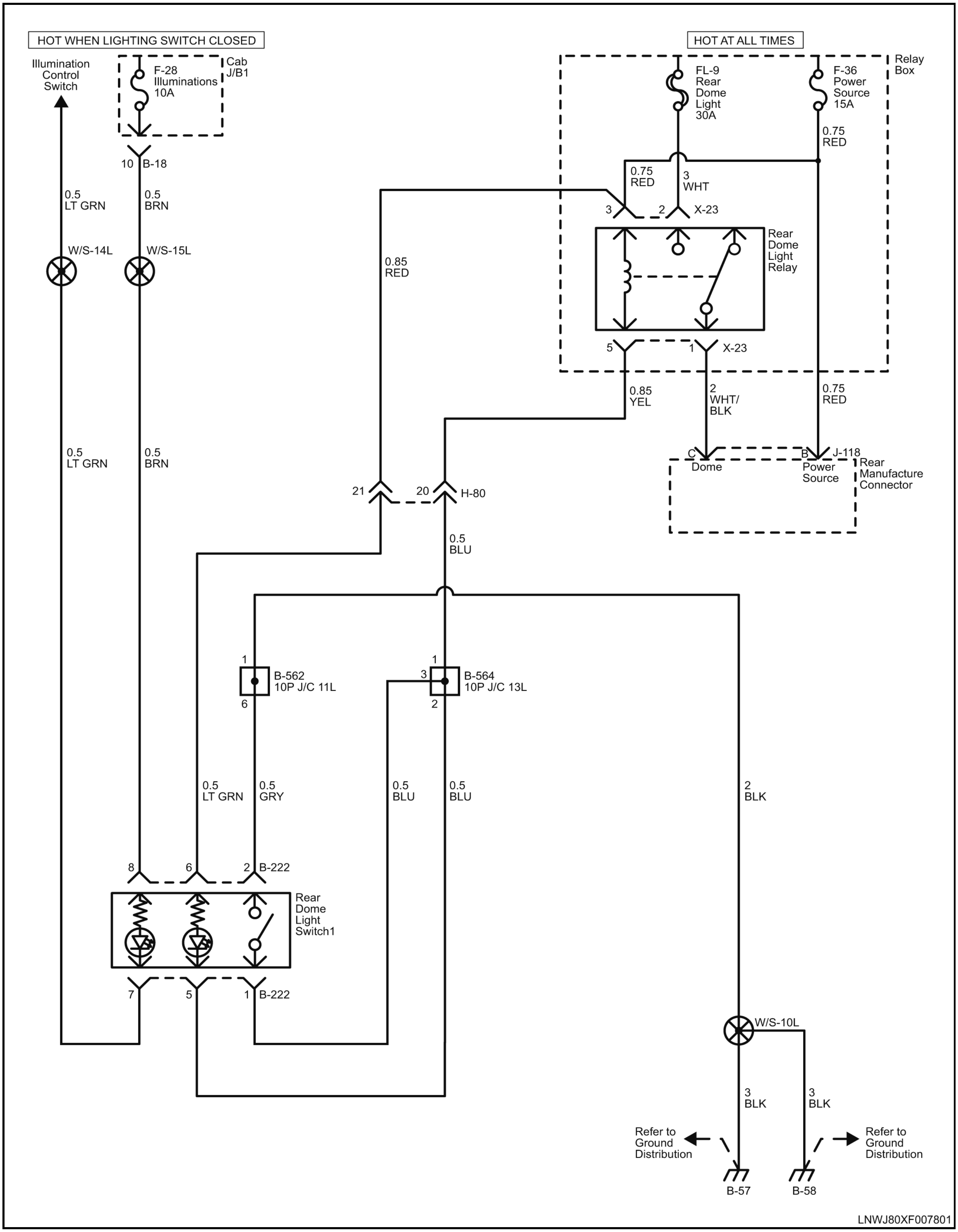

HOT IN ON
F-8
Wiper
25A
HOT IN ON
F-18
Ignition 1
10A
Cab
J/B1
X-6
Wiper
Main
Relay
B-18
B-23
1.25
LT GRN
1.25
YEL
0.5
LT GRN
Intermittent
Relay
B-210
0.5
LT GRN
1.25
LT GRN
0.5
VIO
0.5
YEL
0.5
BLU
0.5
GRY
X-8
B-563
10P J/C 12L
Wiper
High
Low
Relay
W/S-100R
W/S-101R
B-518
10P J/C 3R
B-22
B-18
0.5
VIO
0.5
LT BLU
1.25
LT BLU
1.25
VIO
1.25
LT GRN
0.85
BLU/
WHT
B-75
0.5
BLU
0.5
BLU
W/S-17R
B-74
Hi
Lo
P
B
M
E
Front
Wiper
Motor
Front
Washer
Motor
1.25
BLK
1.25
YEL
2
BLK
B-505
10P J/C 1R
W/S-16L
2 BLK
B-562
10P J/C 11L
B-188
Lo
Hi
Int
Wash
Wiper
Switch
0.5
GRY
W/S-9C
W/S-10L
3
BLK
Refer to
Ground
Distribution
B-60
B-51
B-57
B-58
LNWJ80XF008001

4957242

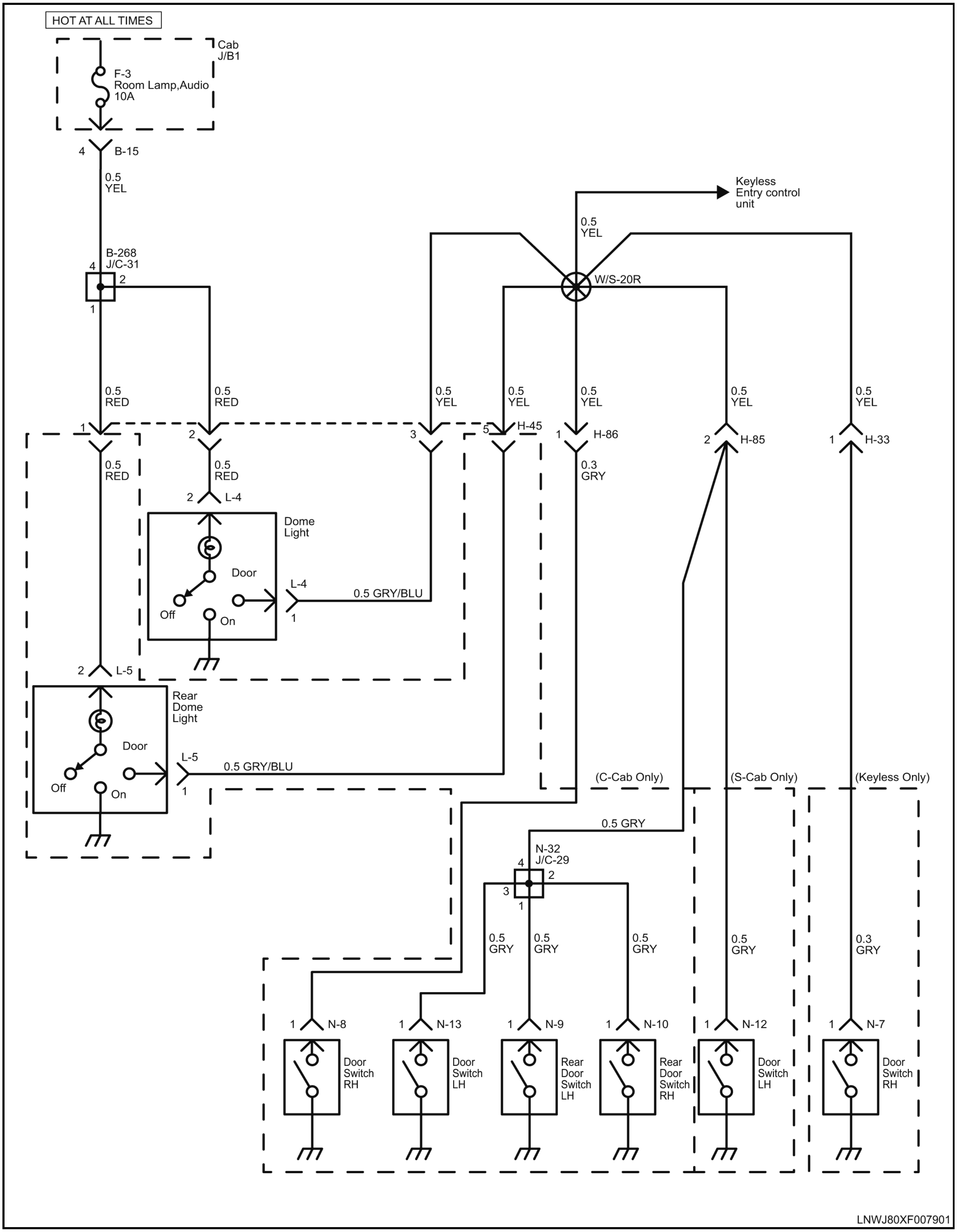

Weld Splice 100
1.25BLU/ORN
5 B-210
A
1.25 BLU/WHT
B
1.25 BLU/ORN
Intermittent Relay
C
0.5 RED/BLK
D
0.5 BLU/RED
E
0.5 BLK/BLU
3
7
6
1
2
B-210
0.5 BLK
0.5 BLU/ BLK
5 B-259
Sub J/B
15 B-259
4 B-258
F
1.25 BLU/ORN
B-264 J/C-30P
5
4
6
0.5 BLU/ BLK
2 B-74
Front Washer Motor
M
0.5 BLU/ BLK
0.5 BLK
2 BLK
1 B-74
1.25 BLU/ WHT
G
0.85 BLU/WHT
Weld Splice 101
H
0.5 BLU/BLK
Weld Splice 10
3 BLK
3 BLK
I
0.5 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58

4557025

Interior Lights Schematics

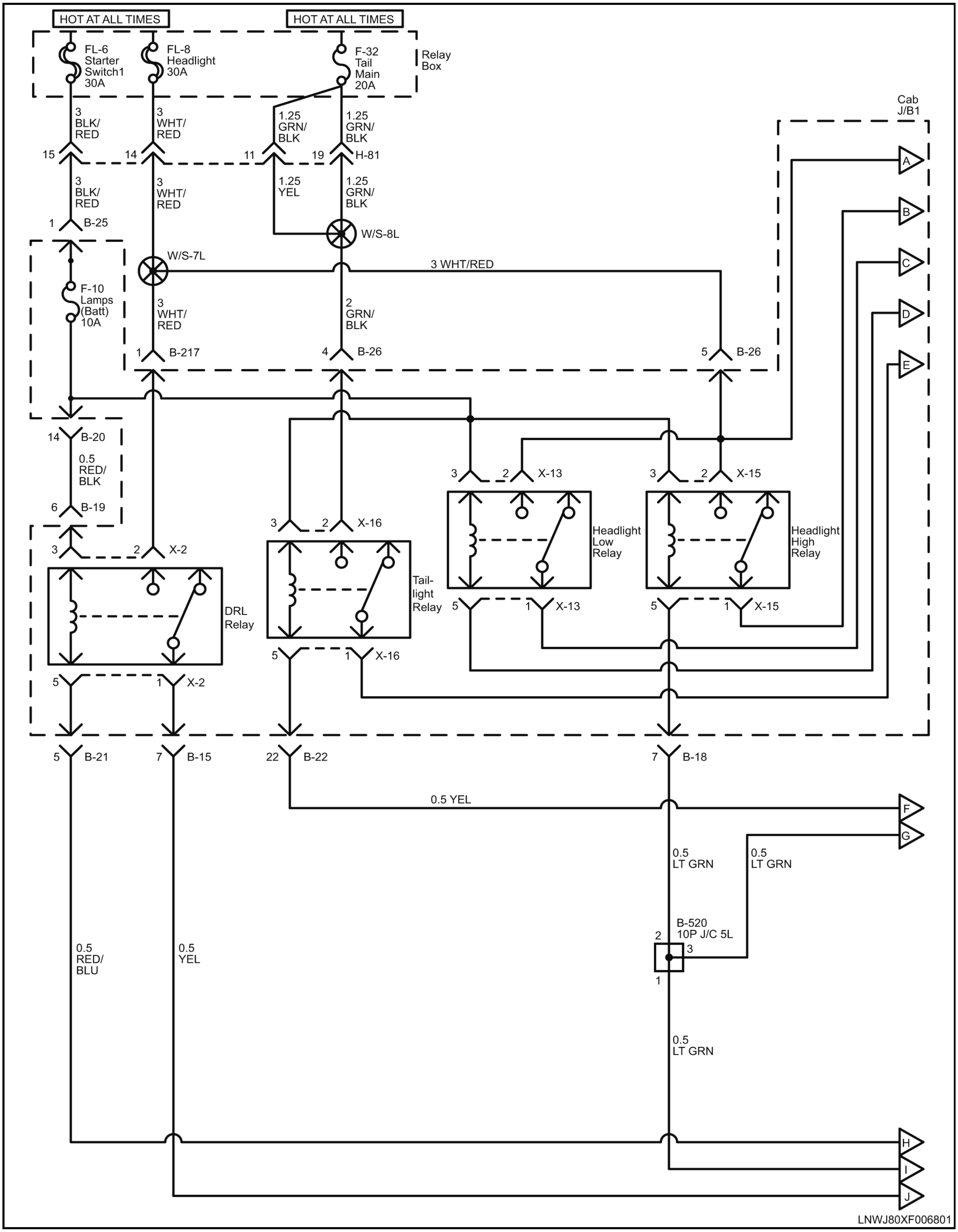

HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Illumination Control Switch
F-28 Illuminations 10A
Cab J/B1
FL-9 Rear Dome Light 30A
F-36 Power Source 15A
Relay Box
0.75 RED
10 B-18
0.75 RED
3 WHT
0.5 LT GRN
0.5 BRN
3
2
X-23
W/S-14L
W/S-15L
Rear Dome Light Relay
0.85 RED
5
1
X-23
0.85 YEL
2 WHT/BLK
0.75 RED
0.5 LT GRN
0.5 BRN
C
Dome
B
Power Source
J-118
Rear Manufacture Connector
21
20
H-80
0.5 BLU
1
B-562 10P J/C 11L
6
1
3
B-564 10P J/C 13L
2
0.5 LT GRN
0.5 GRY
0.5 BLU
0.5 BLU
2 BLK
8
6
2
B-222
Rear Dome Light Switch1
7
5
1
B-222
W/S-10L
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
LNWJ80XF007801

4957212

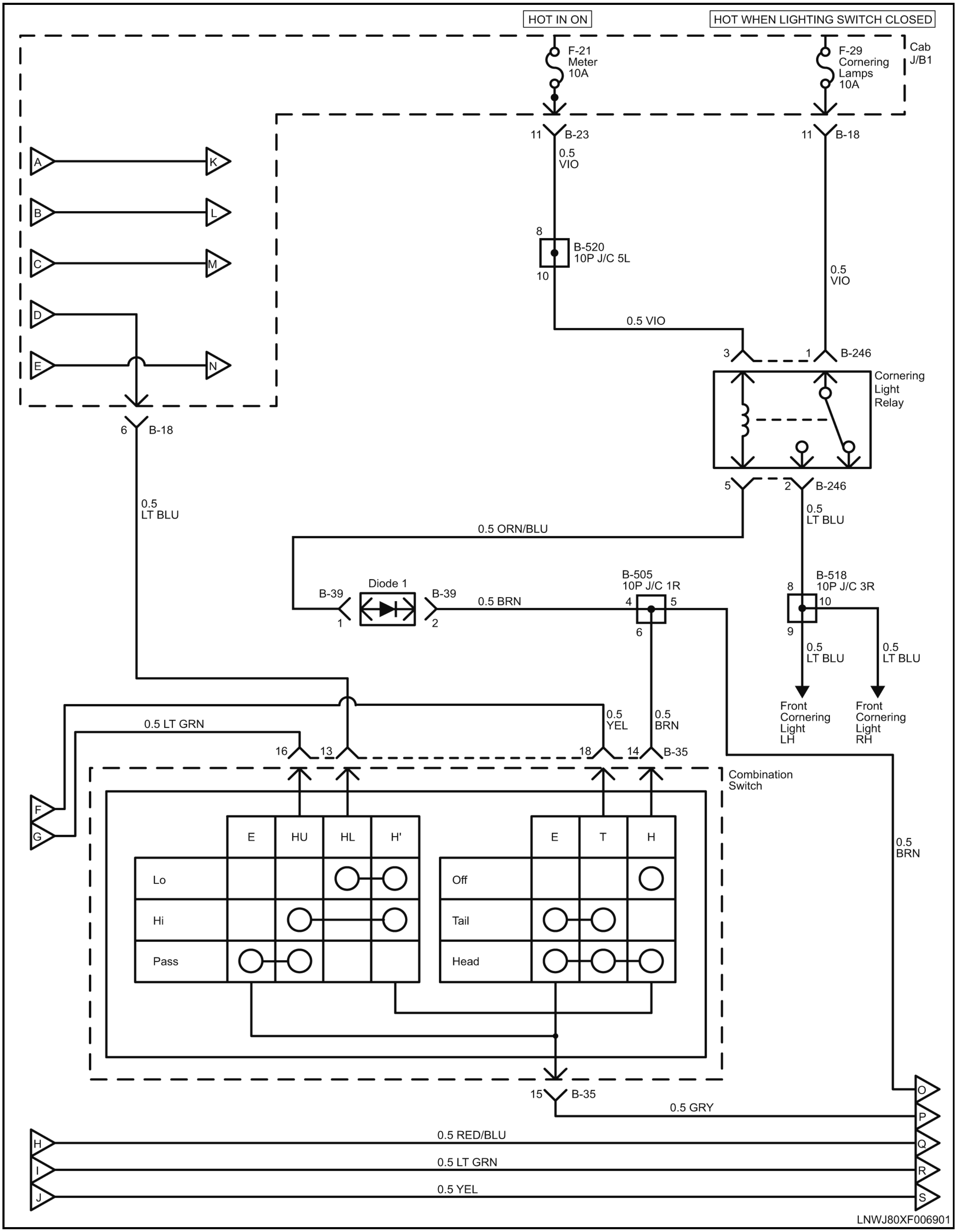

HOT AT ALL TIMES
Cab J/B1
F-3 Room Lamp,Audio 10A
4 B-15
0.5 YEL
B-268 J/C-31
4
2
1
Keyless Entry control unit
0.5 YEL
W/S-20R
0.5 RED
0.5 RED
0.5 YEL
0.5 YEL
0.5 YEL
0.5 YEL
0.5 YEL
1
2
3
5 H-45
1 H-86
2 H-85
1 H-33
0.5 RED
0.5 RED
0.3 GRY
2 L-4
Dome Light
Door
L-4
1
0.5 GRY/BLU
Off
On
2 L-5
Rear Dome Light
Door
L-5
1
0.5 GRY/BLU
Off
On
(C-Cab Only)
(S-Cab Only)
(Keyless Only)
0.5 GRY
N-32 J/C-29
4
2
3
1
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.3 GRY
1 N-8
1 N-13
1 N-9
1 N-10
1 N-12
1 N-7
Door Switch RH
Door Switch LH
Rear Door Switch LH
Rear Door Switch RH
Door Switch LH
Door Switch RH
LNWJ80XF007901

4957216

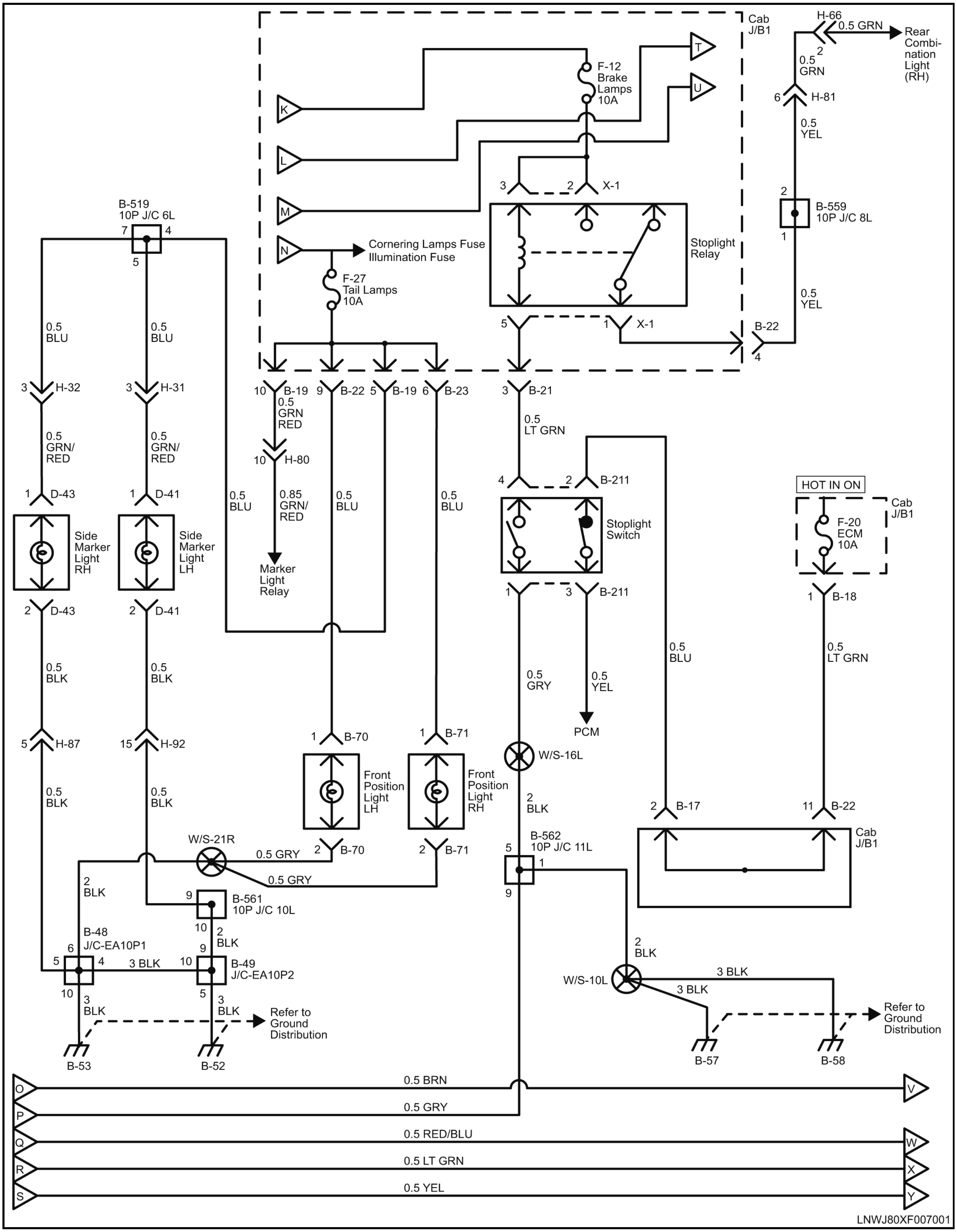
Exterior Lights Schematics


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-6
Starter
Switch1
30A
FL-8
Headlight
30A
F-32
Tail
Main
20A
Relay
Box
Cab
J/B1
3
BLK/
RED
3
WHT/
RED
1.25
GRN/
BLK
1.25
GRN/
BLK
15
14
11
19
H-81
3
BLK/
RED
3
WHT/
RED
1.25
YEL
1.25
GRN/
BLK
1
B-25
W/S-8L
W/S-7L
3 WHT/RED
F-10
Lamps
(Batt)
10A
3
WHT/
RED
2
GRN/
BLK
1
B-217
4
B-26
5
B-26
A
B
C
D
E
14
B-20
0.5
RED/
BLK
6
B-19
3
2
X-13
3
2
X-15
3
2
X-16
3
2
X-2
Headlight
Low
Relay
Headlight
High
Relay
Tail-
light
Relay
DRL
Relay
5
1
X-13
5
1
X-15
5
1
X-16
5
1
X-2
5
B-21
7
B-15
22
B-22
7
B-18
0.5 YEL
F
G
0.5
LT GRN
0.5
LT GRN
B-520
10P J/C 5L
2
3
1
0.5
RED/
BLU
0.5
YEL
0.5
LT GRN
H
I
J
LNWJ80XF006801

4957065


HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
F-21
Meter
10A
F-29
Cornering
Lamps
10A
Cab
J/B1
11 B-23
11 B-18
0.5
VIO
8
B-520
10P J/C 5L
10
0.5
VIO
0.5 VIO
3
1 B-246
Cornering
Light
Relay
5
2 B-246
0.5
LT BLU
6 B-18
0.5
LT BLU
0.5 ORN/BLU
Diode 1
B-39
1
B-39
2
0.5 BRN
B-505
10P J/C 1R
4
5
6
B-518
10P J/C 3R
8
10
9
0.5
LT BLU
0.5
LT BLU
Front
Cornering
Light
LH
Front
Cornering
Light
RH
A
B
C
D
E
K
L
M
N
F
G
0.5 LT GRN
0.5
YEL
0.5
BRN
16
13
18
14 B-35
Combination
Switch
E
HU
HL
H'
Lo
Hi
Pass
E
T
H
Off
Tail
Head
0.5
BRN
15 B-35
0.5 GRY
O
P
H
0.5 RED/BLU
Q
I
0.5 LT GRN
R
J
0.5 YEL
S
LNWJ80XF006901

4957082


Cab J/B1
K
L
M
N
T
U
F-12 Brake Lamps 10A
H-66
0.5 GRN
Rear Combi-nation Light (RH)
2
0.5 GRN
6
H-81
0.5 YEL
3
2
X-1
2
B-559 10P J/C 8L
1
Cornering Lamps Fuse Illumination Fuse
F-27 Tail Lamps 10A
Stoplight Relay
B-519 10P J/C 6L
7
4
5
0.5 BLU
0.5 BLU
0.5 YEL
5
1
X-1
B-22
4
3 H-32
3 H-31
10 B-19
0.5 GRN RED
9 B-22
5 B-19
6 B-23
3 B-21
0.5 LT GRN
0.5 GRN/ RED
0.5 GRN/ RED
10 H-80
1 D-43
1 D-41
0.5 BLU
0.85 GRN/ RED
0.5 BLU
0.5 BLU
4
2 B-211
HOT IN ON
Side Marker Light RH
Side Marker Light LH
Marker Light Relay
Stoplight Switch
Cab J/B1
F-20 ECM 10A
2 D-43
2 D-41
1
3 B-211
1 B-18
0.5 BLK
0.5 BLK
0.5 BLU
0.5 LT GRN
0.5 GRY
0.5 YEL
PCM
1 B-70
1 B-71
5 H-87
15 H-92
W/S-16L
Front Position Light LH
Front Position Light RH
0.5 BLK
0.5 BLK
2 BLK
2 B-17
11 B-22
Cab J/B1
W/S-21R
0.5 GRY
2 B-70
2 B-71
B-562 10P J/C 11L
5
1
9
0.5 GRY
2 BLK
9
B-561 10P J/C 10L
B-48 J/C-EA10P1
10
2 BLK
2 BLK
6
9
5
4
3 BLK
10
B-49 J/C-EA10P2
W/S-10L
3 BLK
3 BLK
10
3 BLK
5
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
B-57
B-58
O
0.5 BRN
V
P
0.5 GRY
Q
0.5 RED/BLU
W
R
0.5 LT GRN
X
S
0.5 YEL
Y
LNWJ80XF007001
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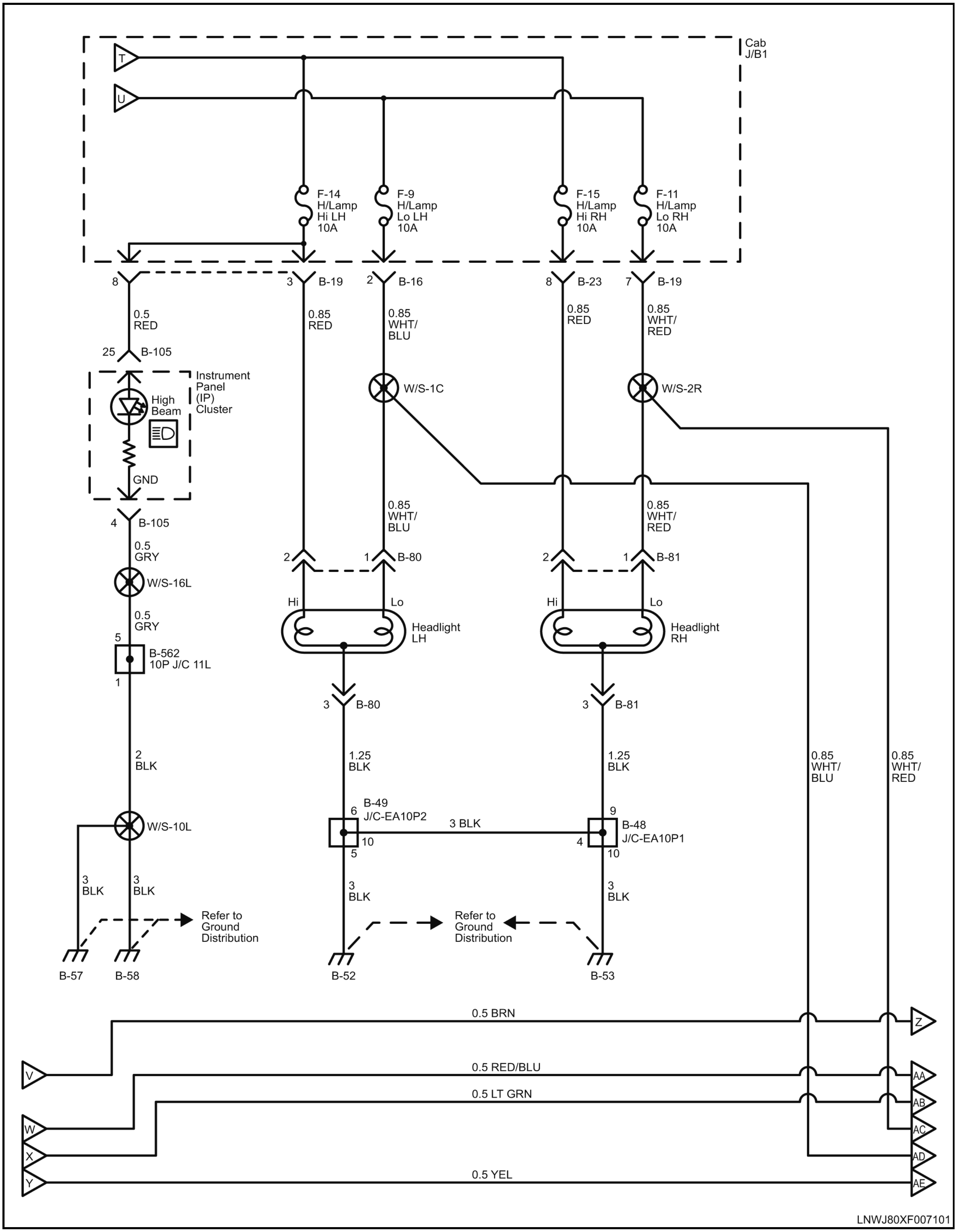
Cab J/B1
T
U
F-14 H/Lamp Hi LH 10A
F-9 H/Lamp Lo LH 10A
F-15 H/Lamp Hi RH 10A
F-11 H/Lamp Lo RH 10A
8
3 B-19
2 B-16
8 B-23
7 B-19
0.5 RED
0.85 RED
0.85 WHT/ BLU
0.85 RED
0.85 WHT/ RED
25 B-105
Instrument Panel (IP) Cluster
High Beam
GND
W/S-1C
W/S-2R
4 B-105
0.5 GRY
W/S-16L
0.5 GRY
5
B-562 10P J/C 11L
1
0.85 WHT/ BLU
0.85 WHT/ RED
2
1 B-80
2
1 B-81
Hi
Lo
Headlight LH
Hi
Lo
Headlight RH
3 B-80
3 B-81
2 BLK
1.25 BLK
1.25 BLK
0.85 WHT/ BLU
0.85 WHT/ RED
B-49 J/C-EA10P2
6
10
5
3 BLK
9
B-48 J/C-EA10P1
4
10
W/S-10L
3 BLK
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
B-52
B-53
0.5 BRN
Z
V
0.5 RED/BLU
AA
0.5 LT GRN
AB
W
AC
X
AD
Y
0.5 YEL
AE
LNWJ80XF007101

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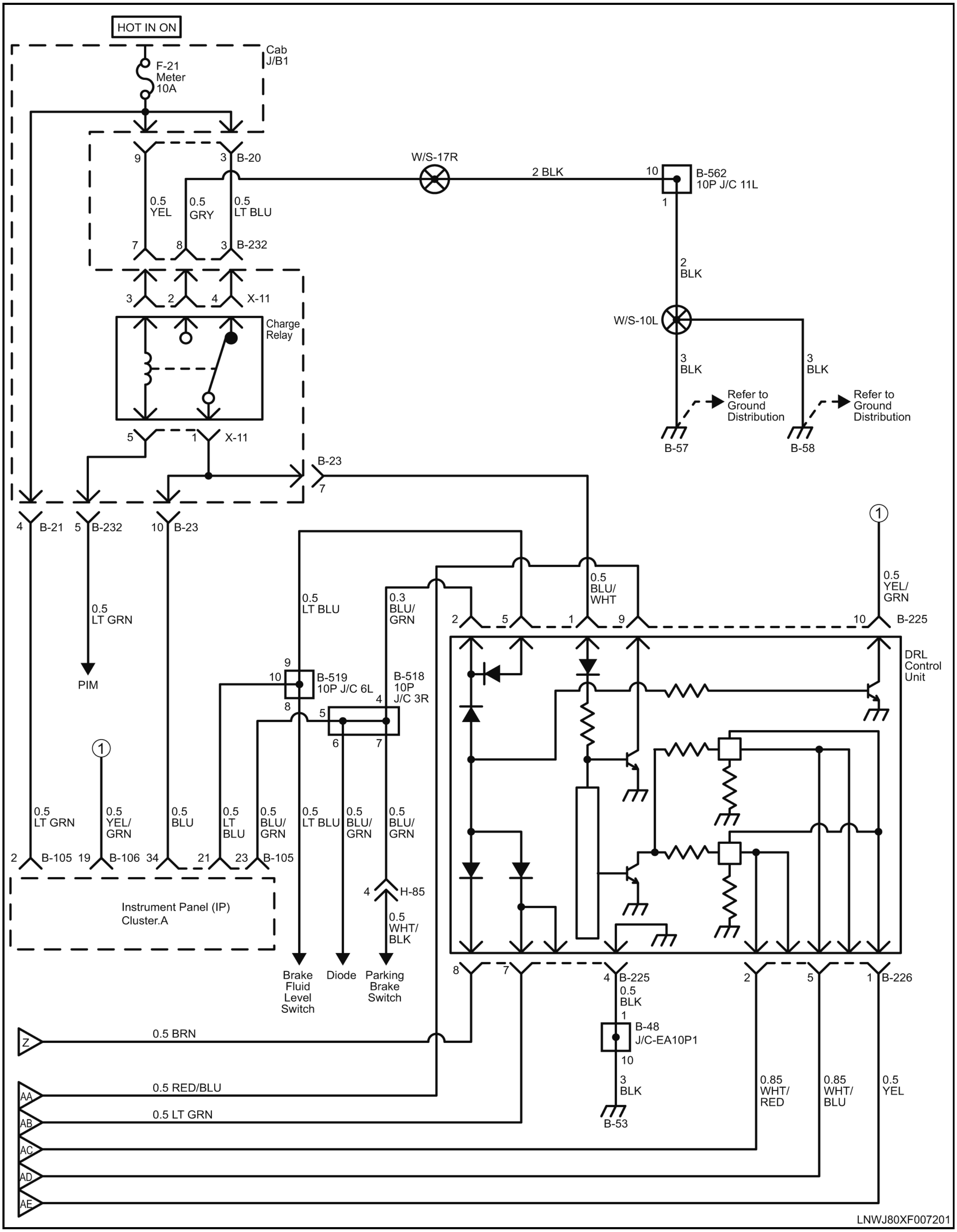
HOT IN ON
Cab J/B1
F-21 Meter 10A
9
3 B-20
0.5 YEL
0.5 GRY
0.5 LT BLU
7 8 3 B-232
W/S-17R
2 BLK
10 B-562 10P J/C 11L
1
2 BLK
W/S-10L
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
3 2 4 X-11
Charge Relay
5 1 X-11
B-23
7
4 B-21
5 B-232
10 B-23
0.5 LT GRN
PIM
0.5 LT BLU
0.3 BLU/ GRN
0.5 BLU/ WHT
0.5 YEL/ GRN
2 5 1 9
10 B-225
DRL Control Unit
9
10 B-519 10P J/C 6L
8
B-518 10P J/C 3R
4
5
6 7
1
1
0.5 LT GRN
0.5 YEL/ GRN
0.5 BLU
0.5 LT BLU
0.5 BLU/ GRN
0.5 LT BLU
0.5 BLU/ GRN
0.5 BLU/ GRN
2 B-105
19 B-106
34
21
23 B-105
4 H-85
0.5 WHT/ BLK
Instrument Panel (IP) Cluster.A
Brake Fluid Level Switch
Diode
Parking Brake Switch
8 7
4 B-225
0.5 BLK
1
B-48 J/C-EA10P1
10
3 BLK
B-53
2 5 1 B-226
Z
0.5 BRN
AA
0.5 RED/BLU
AB
0.5 LT GRN
AC
AD
AE
0.85 WHT/ RED
0.85 WHT/ BLU
0.5 YEL
LNWJ80XF007201

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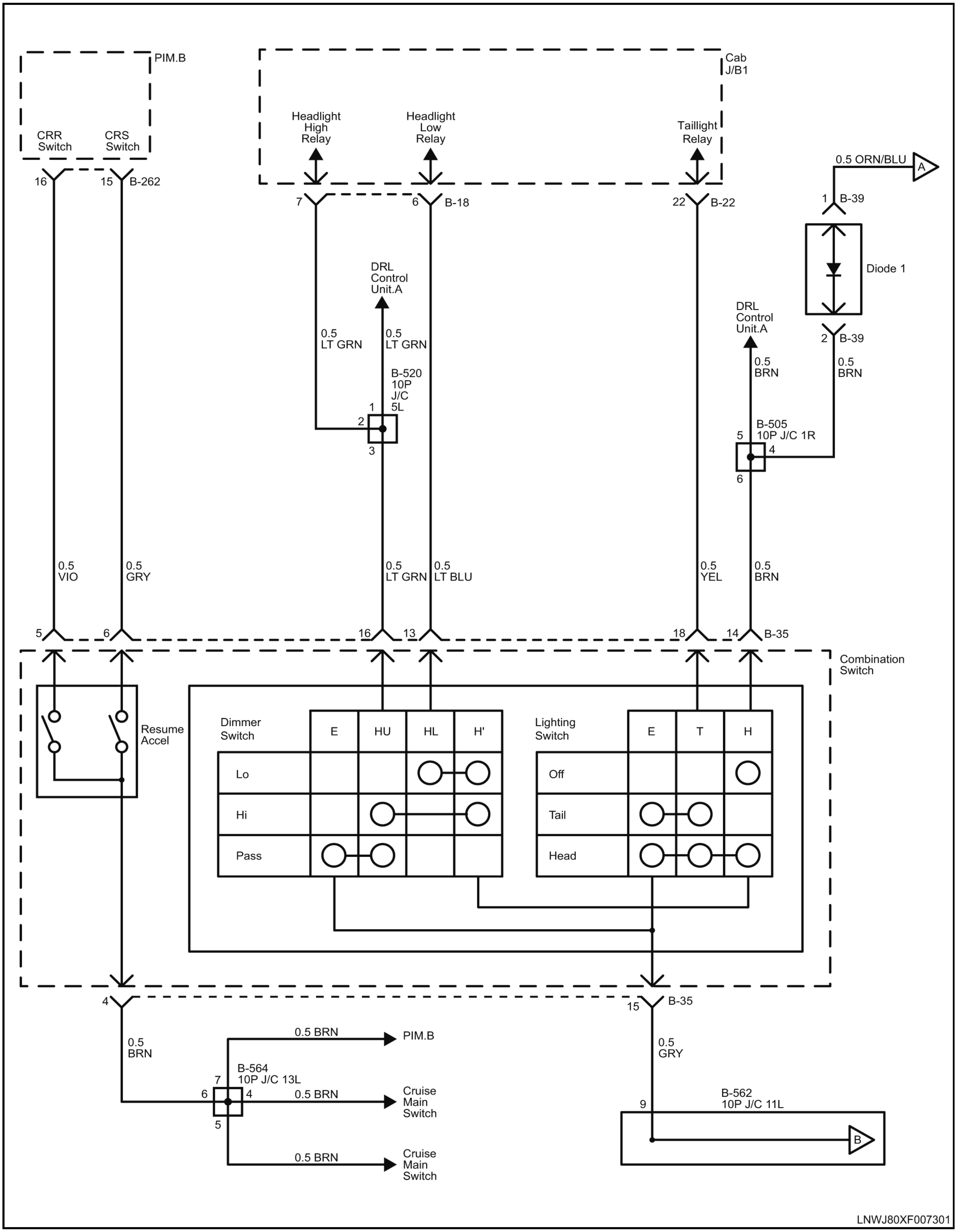
PIM.B
CRR Switch
CRS Switch
16
15
B-262
Cab J/B1
Headlight High Relay
Headlight Low Relay
Taillight Relay
7
6
B-18
22
B-22
0.5 ORN/BLU
A
1
B-39
Diode 1
2
B-39
DRL Control Unit.A
0.5 LT GRN
0.5 LT GRN
B-520 10P J/C 5L
1
2
3
DRL Control Unit.A
0.5 BRN
0.5 BRN
B-505 10P J/C 1R
5
4
6
0.5 VIO
0.5 GRY
0.5 LT GRN
0.5 LT BLU
0.5 YEL
0.5 BRN
5
6
16
13
18
14
B-35
Combination Switch
Resume Accel
Dimmer Switch
E
HU
HL
H'
Lo
Hi
Pass
Lighting Switch
E
T
H
Off
Tail
Head
4
15
B-35
0.5 BRN
0.5 BRN
PIM.B
B-564 10P J/C 13L
7
6
4
5
0.5 BRN
Cruise Main Switch
0.5 BRN
Cruise Main Switch
0.5 GRY
9
B-562 10P J/C 11L
B
LNWJ80XF007301

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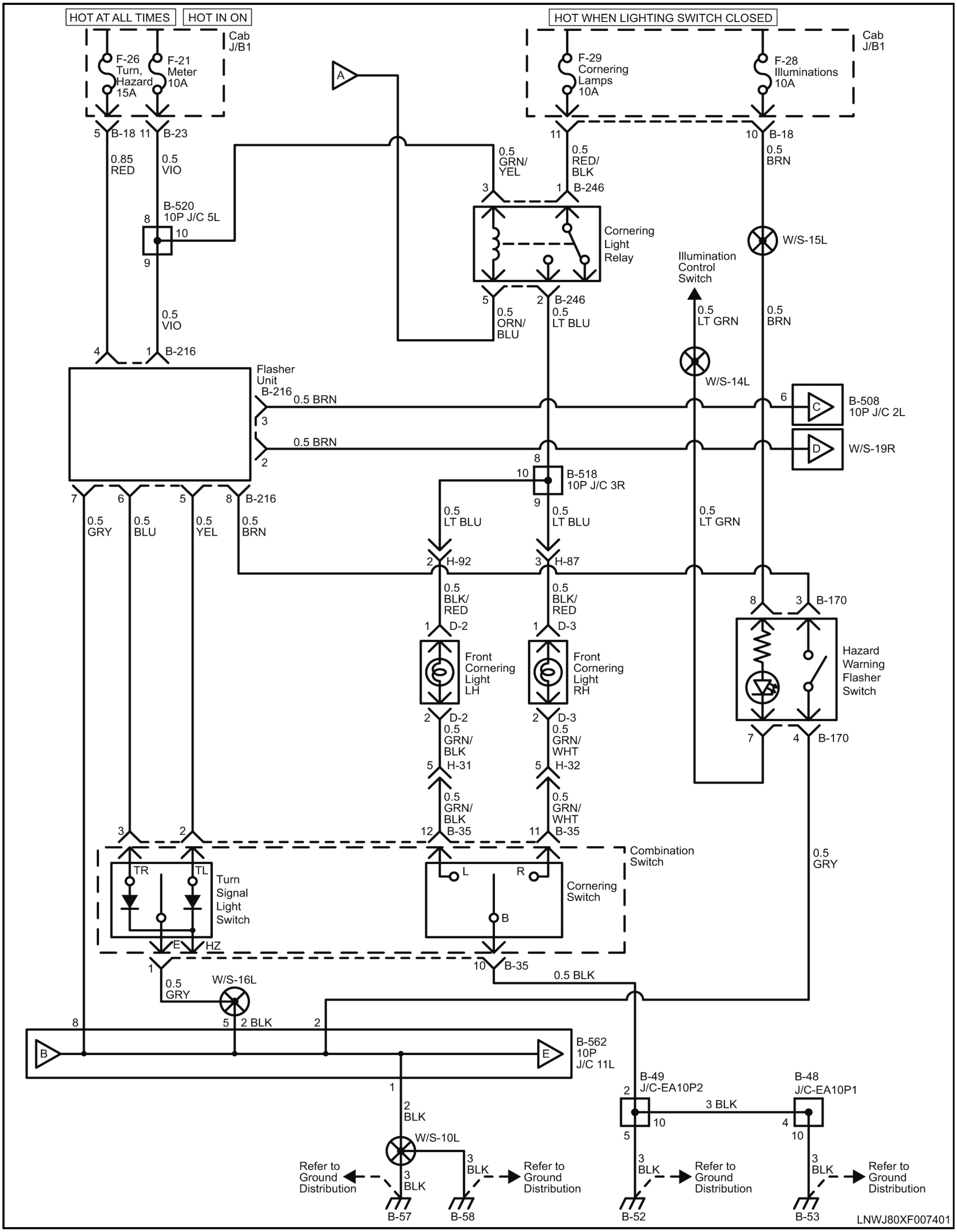
HOT AT ALL TIMES
HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-26 Turn, Hazard 15A
F-21 Meter 10A
F-29 Cornering Lamps 10A
F-28 Illuminations 10A
A
5 B-18 11 B-23
0.85 RED
0.5 VIO
11
10 B-18
0.5 RED/ BLK
0.5 BRN
0.5 GRN/ YEL
3
1 B-246
B-520 10P J/C 5L
8
10
9
Cornering Light Relay
W/S-15L
Illumination Control Switch
5
2 B-246
0.5 ORN/ BLU
0.5 LT BLU
0.5 LT GRN
0.5 BRN
0.5 VIO
4
1 B-216
W/S-14L
Flasher Unit
B-216
0.5 BRN
3
0.5 BRN
2
6
C
B-508 10P J/C 2L
D
W/S-19R
8
10
B-518 10P J/C 3R
9
7
6
5
8 B-216
0.5 GRY
0.5 BLU
0.5 YEL
0.5 BRN
0.5 LT BLU
0.5 LT BLU
0.5 LT GRN
2 H-92
3 H-87
0.5 BLK/ RED
0.5 BLK/ RED
8
3 B-170
1 D-2
1 D-3
Front Cornering Light LH
Front Cornering Light RH
Hazard Warning Flasher Switch
2 D-2
2 D-3
0.5 GRN/ BLK
0.5 GRN/ WHT
7
4 B-170
5 H-31
5 H-32
0.5 GRN/ BLK
0.5 GRN/ WHT
3
2
12 B-35
11 B-35
Combination Switch
0.5 GRY
TR
TL
Turn Signal Light Switch
L
R
Cornering Switch
B
E
HZ
1
10 B-35
0.5 GRY
W/S-16L
0.5 BLK
8
5 2 BLK
2
B
E
B-562 10P J/C 11L
1
2 BLK
W/S-10L
B-49 J/C-EA10P2
B-48 J/C-EA10P1
2
3 BLK
10
4
5
10
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
B-57
B-58
B-52
B-53
LNWJ80XF007401

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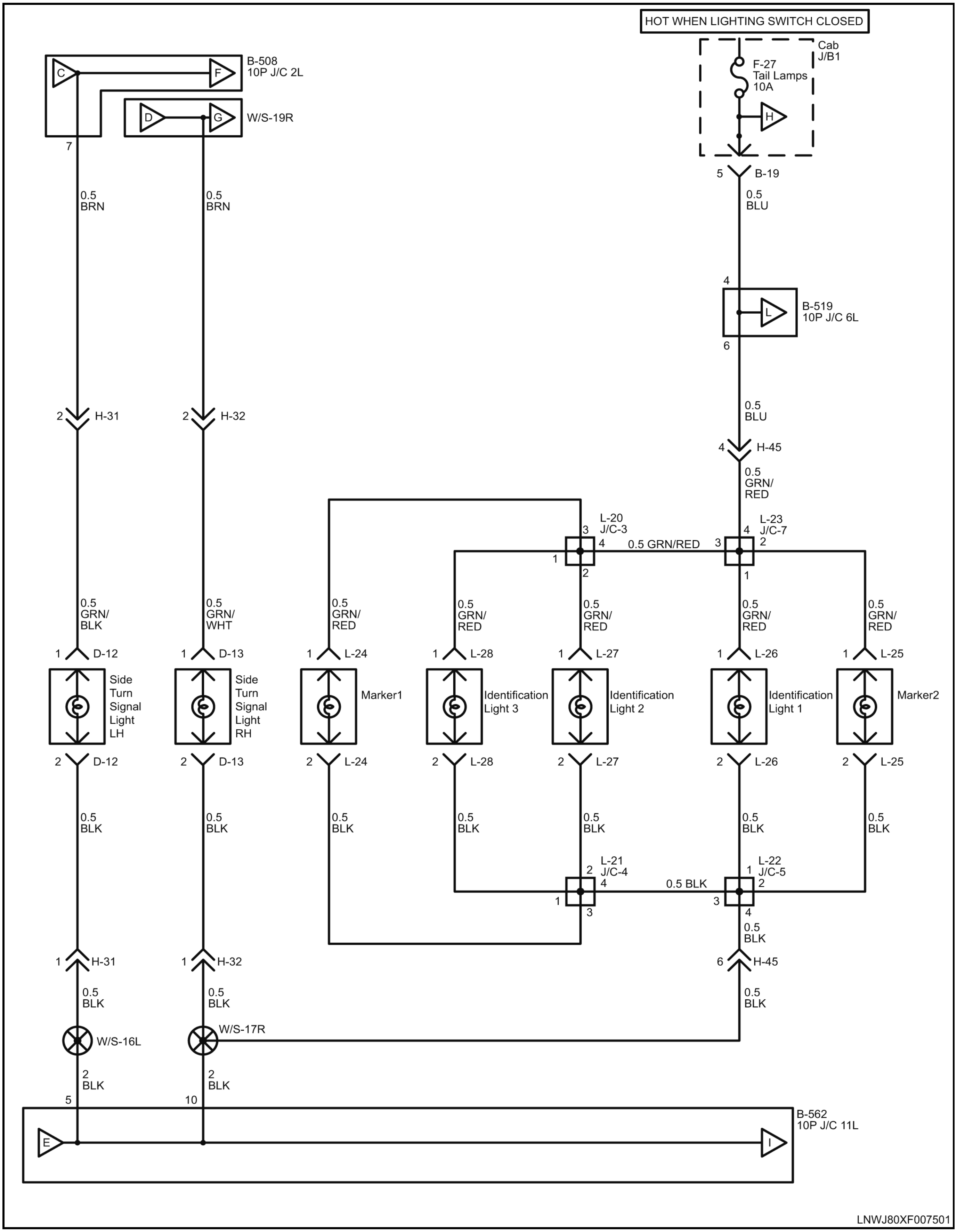
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-27 Tail Lamps 10A
H
5 B-19
0.5 BLU
4
B-519 10P J/C 6L
L
6
0.5 BLU
4 H-45
0.5 GRN/RED
B-508 10P J/C 2L
C
F
D
G
W/S-19R
7
0.5 BRN
0.5 BRN
2 H-31
2 H-32
L-20 J/C-3
3
4
1
2
0.5 GRN/RED
L-23 J/C-7
4
3
2
1
0.5 GRN/BLK
0.5 GRN/WHT
0.5 GRN/RED
0.5 GRN/RED
0.5 GRN/RED
0.5 GRN/RED
0.5 GRN/RED
1 D-12
1 D-13
1 L-24
1 L-28
1 L-27
1 L-26
1 L-25
Side Turn Signal Light LH
Side Turn Signal Light RH
Marker1
Identification Light 3
Identification Light 2
Identification Light 1
Marker2
2 D-12
2 D-13
2 L-24
2 L-28
2 L-27
2 L-26
2 L-25
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
L-21 J/C-4
2
4
1
3
0.5 BLK
L-22 J/C-5
1
2
3
4
0.5 BLK
1 H-31
1 H-32
6 H-45
0.5 BLK
0.5 BLK
0.5 BLK
W/S-16L
W/S-17R
2 BLK
2 BLK
5
10
B-562 10P J/C 11L
E
I
LNWJ80XF007501

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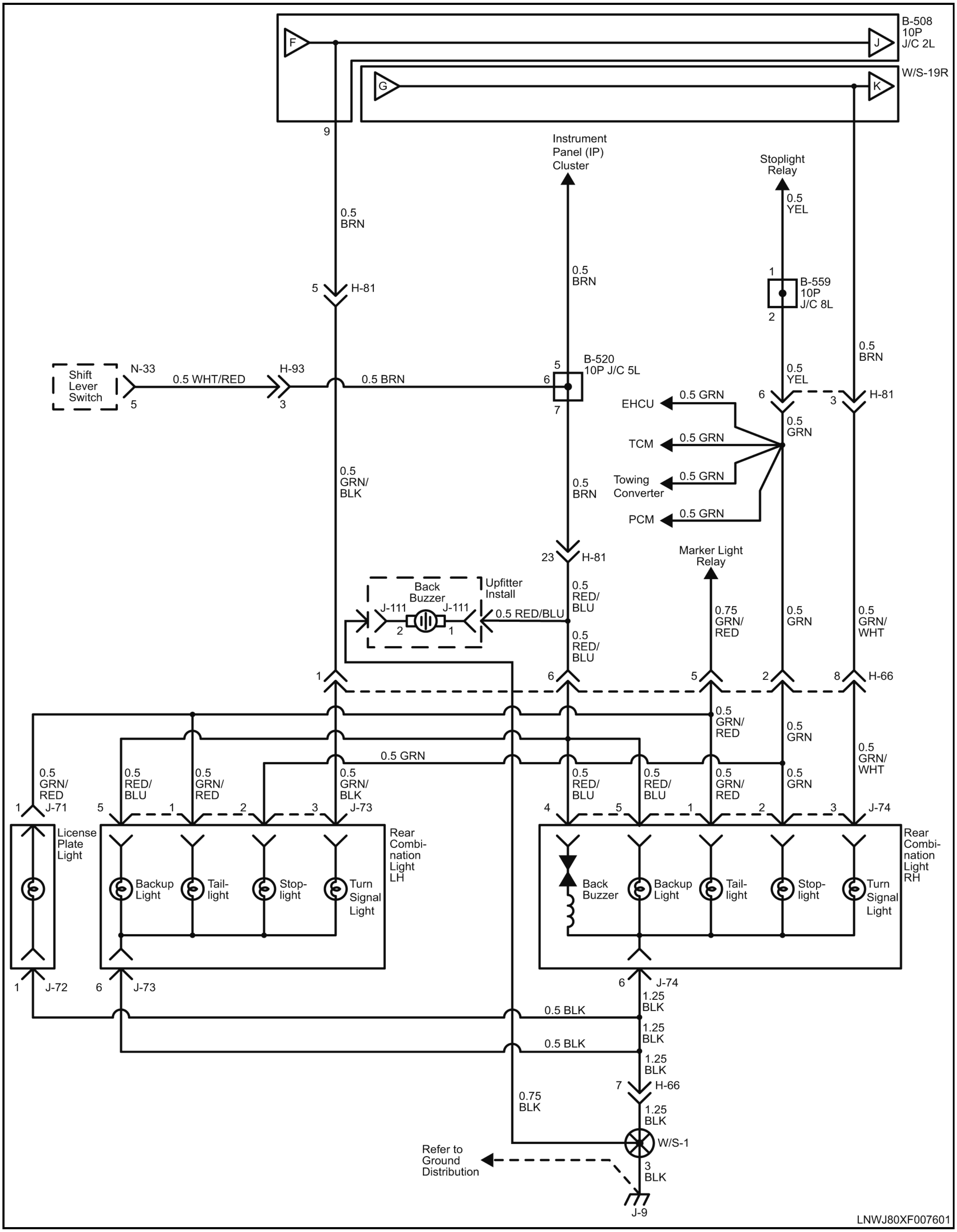
B-508
10P
J/C 2L
W/S-19R
F
J
G
K
9
Instrument Panel (IP) Cluster
Stoplight Relay
0.5 YEL
0.5 BRN
5 H-81
1 B-559 10P J/C 8L 2
0.5 BRN
Shift Lever Switch
N-33
5
0.5 WHT/RED
H-93
3
0.5 BRN
5 B-520 10P J/C 5L
6
7
0.5 YEL
6
3 H-81
EHCU
0.5 GRN
TCM
0.5 GRN
Towing Converter
0.5 GRN
PCM
0.5 GRN
0.5 GRN
0.5 GRN/BLK
0.5 BRN
23 H-81
Marker Light Relay
Back Buzzer
Upfitter Install
J-111
J-111
2
1
0.5 RED/BLU
0.5 RED/BLU
0.5 RED/BLU
0.75 GRN/RED
0.5 GRN
0.5 GRN/WHT
1 6 5 2 8 H-66
0.5 GRN/RED
0.5 GRN
0.5 GRN
0.5 GRN/WHT
0.5 GRN/RED
0.5 RED/BLU
0.5 GRN/RED
0.5 GRN/BLK
0.5 RED/BLU
0.5 RED/BLU
0.5 GRN/RED
0.5 GRN
1 J-71
5 1 2 3 J-73
4 5 1 2 3 J-74
License Plate Light
Backup Light
Tail-light
Stop-light
Turn Signal Light
Rear Combi-nation Light LH
Back Buzzer
Backup Light
Tail-light
Stop-light
Turn Signal Light
Rear Combi-nation Light RH
1 J-72
6 J-73
6 J-74
1.25 BLK
0.5 BLK
1.25 BLK
0.5 BLK
1.25 BLK
7 H-66
1.25 BLK
0.75 BLK
W/S-1
Refer to Ground Distribution
3 BLK
J-9
LNWJ80XF007601

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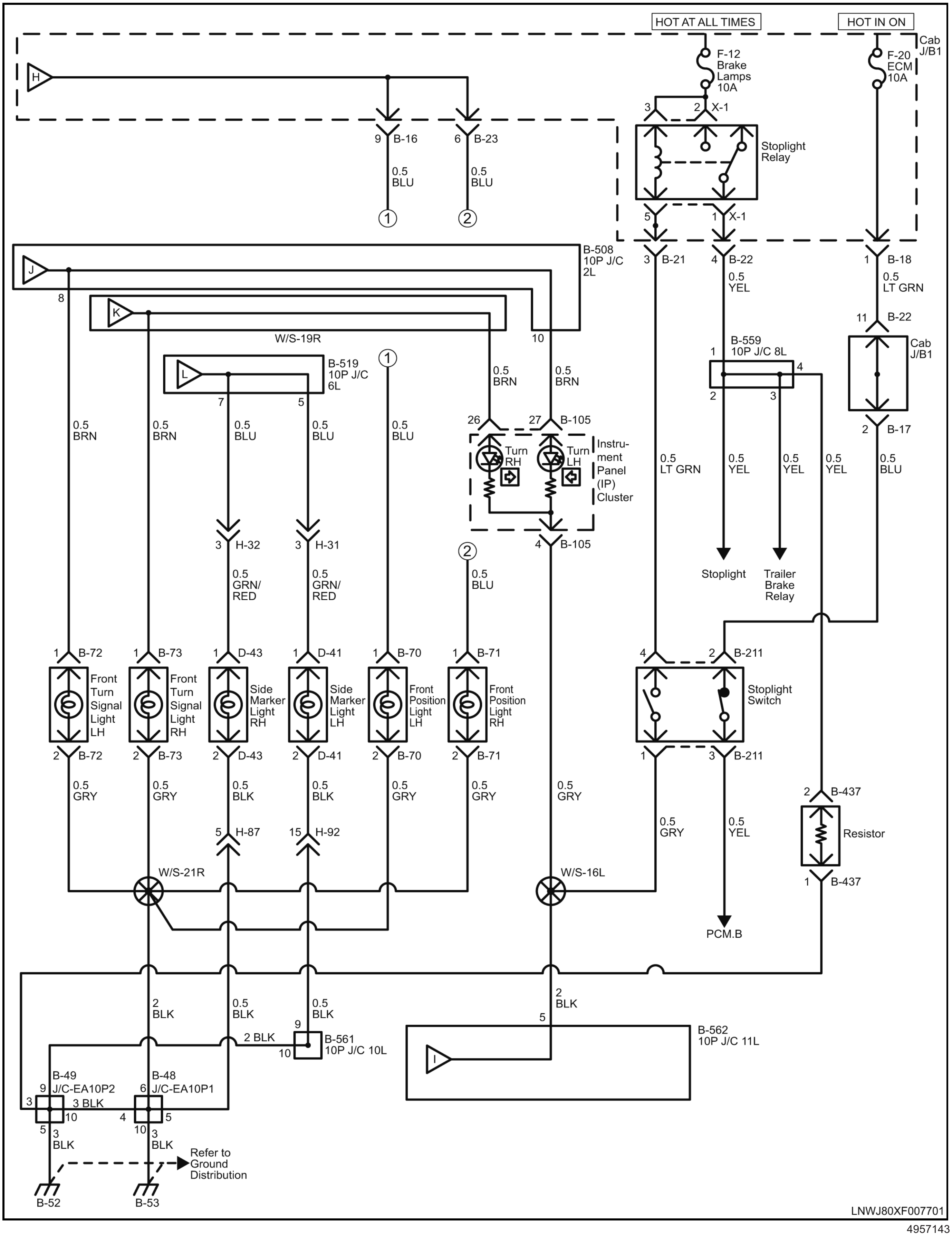
HOT AT ALL TIMES
HOT IN ON
Cab J/B1
F-12 Brake Lamps 10A
F-20 ECM 10A
3
2 X-1
Stoplight Relay
5
1 X-1
H
9 B-16
6 B-23
0.5 BLU
0.5 BLU
①
②
3 B-21
4 B-22
1 B-18
0.5 YEL
0.5 LT GRN
11 B-22
Cab J/B1
2 B-17
B-508 10P J/C 2L
J
8
K
10
W/S-19R
B-559 10P J/C 8L
1
4
2
3
L
B-519 10P J/C 6L
7
5
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BRN
0.5 BLU
0.5 BLU
0.5 BLU
26
27 B-105
Turn RH
Turn LH
Instrument Panel (IP) Cluster
0.5 LT GRN
0.5 YEL
0.5 YEL
0.5 YEL
0.5 BLU
3 H-32
3 H-31
4 B-105
0.5 GRN/RED
0.5 GRN/RED
0.5 BLU
Stoplight
Trailer Brake Relay
1 B-72
1 B-73
1 D-43
1 D-41
1 B-70
1 B-71
4
2 B-211
Front Turn Signal Light LH
Front Turn Signal Light RH
Side Marker Light RH
Side Marker Light LH
Front Position Light LH
Front Position Light RH
Stoplight Switch
2 B-72
2 B-73
2 D-43
2 D-41
2 B-70
2 B-71
1
3 B-211
0.5 GRY
0.5 GRY
0.5 BLK
0.5 BLK
0.5 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.5 YEL
2 B-437
Resistor
1 B-437
5 H-87
15 H-92
W/S-21R
W/S-16L
PCM.B
2 BLK
0.5 BLK
0.5 BLK
2 BLK
5
9
2 BLK
10
B-561 10P J/C 10L
B-562 10P J/C 11L
I
B-49 J/C-EA10P2
B-48 J/C-EA10P1
9
6
3
3 BLK
10
4
5
5
10
3 BLK
3 BLK
Refer to Ground Distribution
B-52
B-53
LNWJ80XF007701

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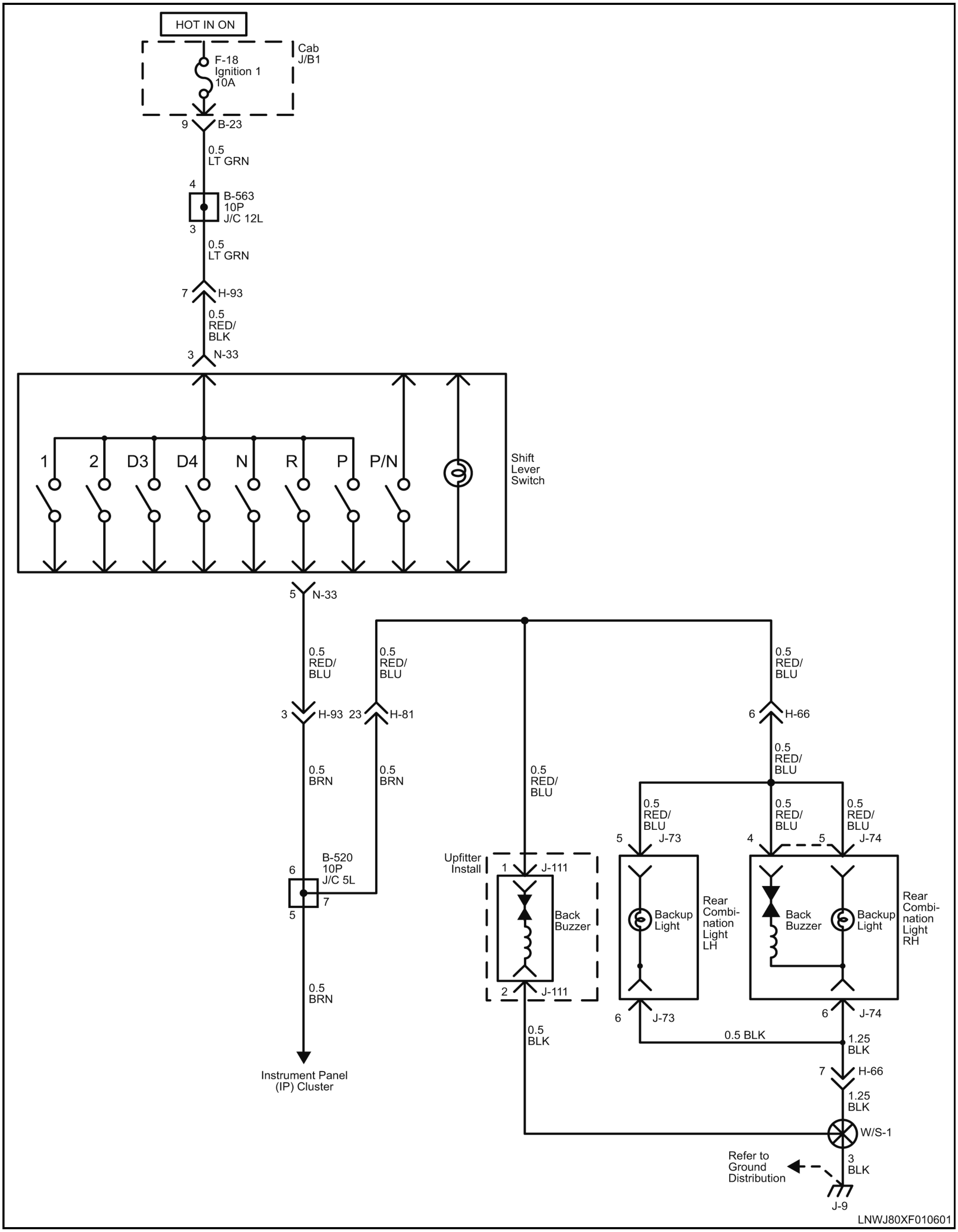
Backup Alarm System Schematics


HOT IN ON
Cab J/B1
F-18 Ignition 1 10A
9 B-23
0.5 LT GRN
4
B-563 10P J/C 12L
3
0.5 LT GRN
7 H-93
0.5 RED/ BLK
3 N-33
1
2
D3
D4
N
R
P
P/N
Shift Lever Switch
5 N-33
0.5 RED/ BLU
0.5 RED/ BLU
0.5 RED/ BLU
3 H-93
23 H-81
6 H-66
0.5 BRN
0.5 BRN
0.5 RED/ BLU
0.5 RED/ BLU
0.5 RED/ BLU
0.5 RED/ BLU
0.5 RED/ BLU
5 J-73
4
5 J-74
6
B-520 10P J/C 5L
7
5
Upfitter Install
1 J-111
Back Buzzer
2 J-111
Backup Light
Rear Combi- nation Light LH
Back Buzzer
Backup Light
Rear Combi- nation Light RH
0.5 BRN
Instrument Panel (IP) Cluster
0.5 BLK
6 J-73
6 J-74
0.5 BLK
1.25 BLK
7 H-66
1.25 BLK
W/S-1
Refer to Ground Distribution
3 BLK
J-9
LNWJ80XF010601

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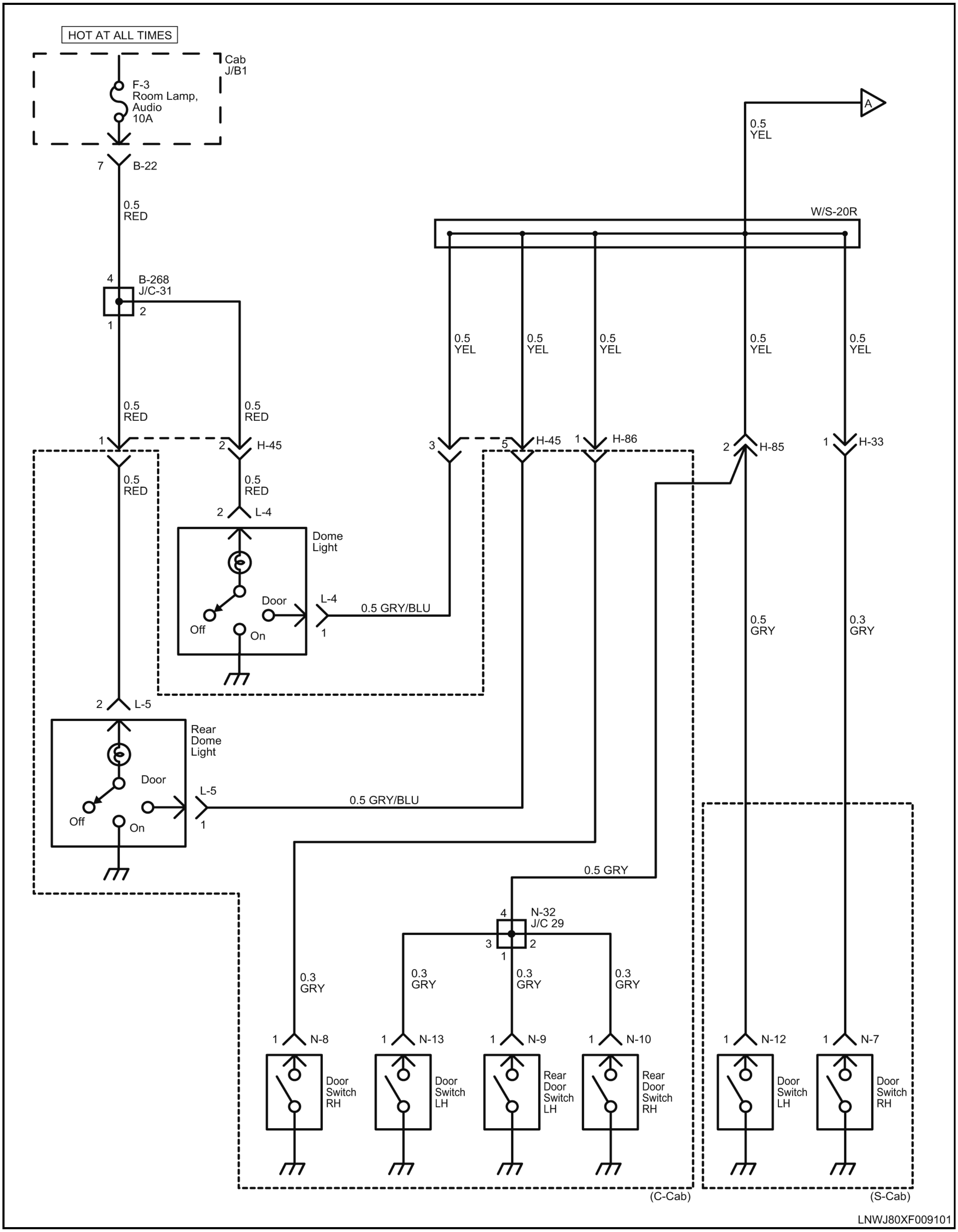
Keyless Entry Schematics


HOT AT ALL TIMES
Cab J/B1
F-3 Room Lamp, Audio 10A
7 B-22
0.5 RED
4 B-268 J/C-31
1
2
0.5 RED
0.5 RED
1
2 H-45
0.5 RED
0.5 RED
2 L-4
Dome Light
Door
Off
On
L-4
1
0.5 GRY/BLU
2 L-5
Rear Dome Light
Door
Off
On
L-5
1
0.5 GRY/BLU
A
0.5 YEL
W/S-20R
0.5 YEL
0.5 YEL
0.5 YEL
0.5 YEL
0.5 YEL
3
5 H-45
1 H-86
2 H-85
1 H-33
0.5 GRY
0.3 GRY
0.5 GRY
4 N-32 J/C 29
3
2
1
0.3 GRY
0.3 GRY
0.3 GRY
0.3 GRY
1 N-8
Door Switch RH
1 N-13
Door Switch LH
1 N-9
Rear Door Switch LH
1 N-10
Rear Door Switch RH
1 N-12
Door Switch LH
1 N-7
Door Switch RH
(C-Cab)
(S-Cab)
LNWJ80XF009101

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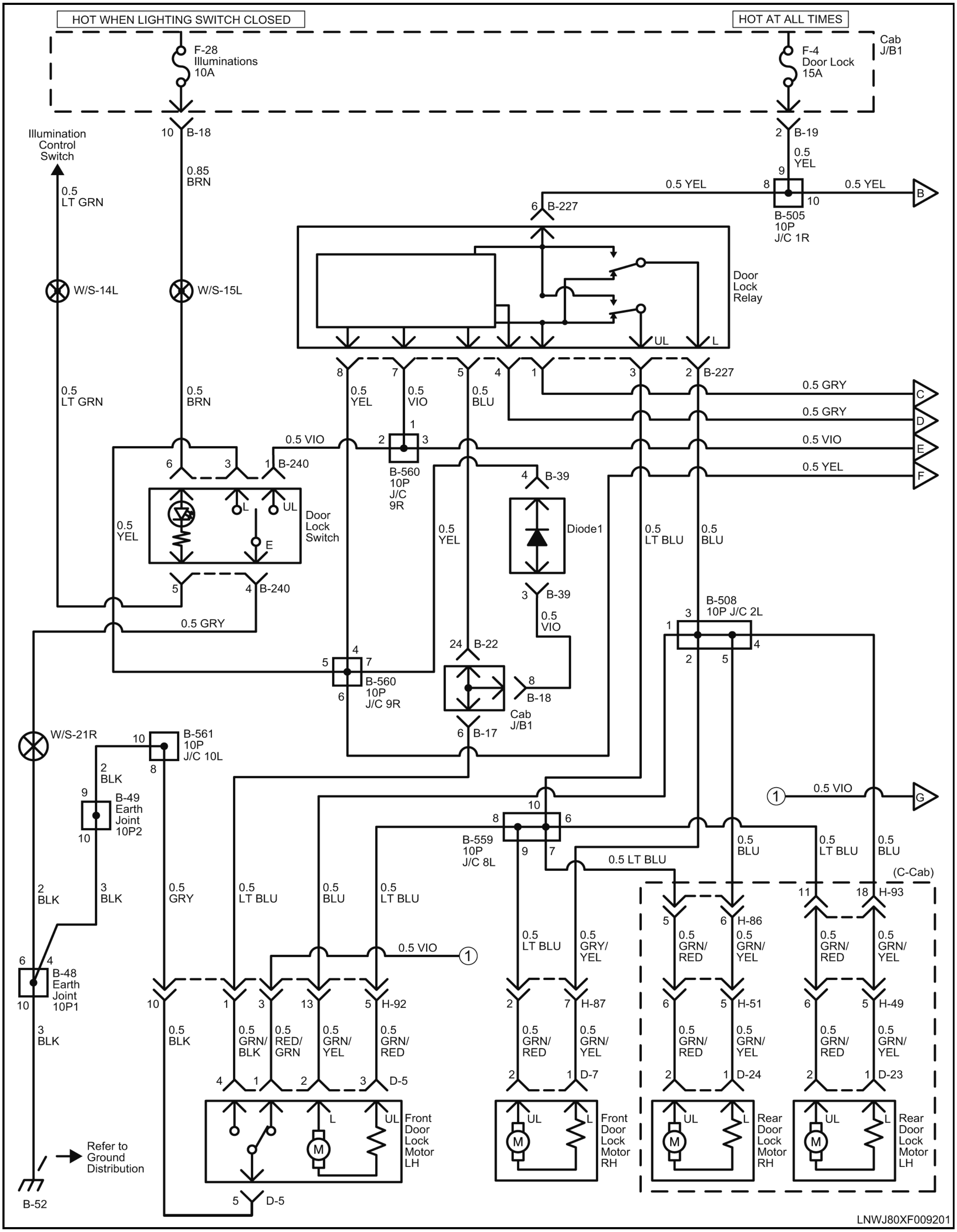
HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-28 Illuminations 10A
F-4 Door Lock 15A
10 B-18
2 B-19
Illumination Control Switch
0.5 LT GRN
0.85 BRN
0.5 YEL
0.5 YEL
8
9
10
B-505 10P J/C 1R
B
6 B-227
W/S-14L
W/S-15L
Door Lock Relay
UL
L
8 7 5 4 1 3 2 B-227
0.5 YEL
0.5 VIO
0.5 BLU
0.5 GRY
C
0.5 GRY
D
0.5 VIO
E
0.5 YEL
F
0.5 LT GRN
0.5 BRN
0.5 VIO
2 1 3
B-560 10P J/C 9R
6 3 1 B-240
L
UL
E
Door Lock Switch
0.5 YEL
0.5 YEL
4 B-39
Diode1
3 B-39
0.5 VIO
0.5 LT BLU
0.5 BLU
5 4 B-240
0.5 GRY
B-508 10P J/C 2L
3 1 2 5 4
4 5 7 6
B-560 10P J/C 9R
24 B-22
8 B-18
Cab J/B1
6 B-17
W/S-21R
10
B-561 10P J/C 10L
8
2 BLK
9
B-49 Earth Joint 10P2
10
1
0.5 VIO
G
10
8 6
B-559 10P J/C 8L
9 7
0.5 LT BLU
0.5 BLU
0.5 LT BLU
0.5 BLU
(C-Cab)
11 18 H-93
2 BLK
3 BLK
0.5 GRY
0.5 LT BLU
0.5 BLU
0.5 LT BLU
0.5 VIO
1
0.5 LT BLU
0.5 GRY/ YEL
5 6 H-86
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
6 4
B-48 Earth Joint 10P1
10
10 1 3 13 5 H-92
2 7 H-87
6 5 H-51
6 5 H-49
3 BLK
0.5 BLK
0.5 GRN/ BLK
0.5 RED/ GRN
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
4 1 2 3 D-5
2 1 D-7
2 1 D-24
2 1 D-23
L
UL
M
Front Door Lock Motor LH
UL
L
M
Front Door Lock Motor RH
UL
L
M
Rear Door Lock Motor RH
UL
L
M
Rear Door Lock Motor LH
Refer to Ground Distribution
B-52
5 D-5
LNWJ80XF009201

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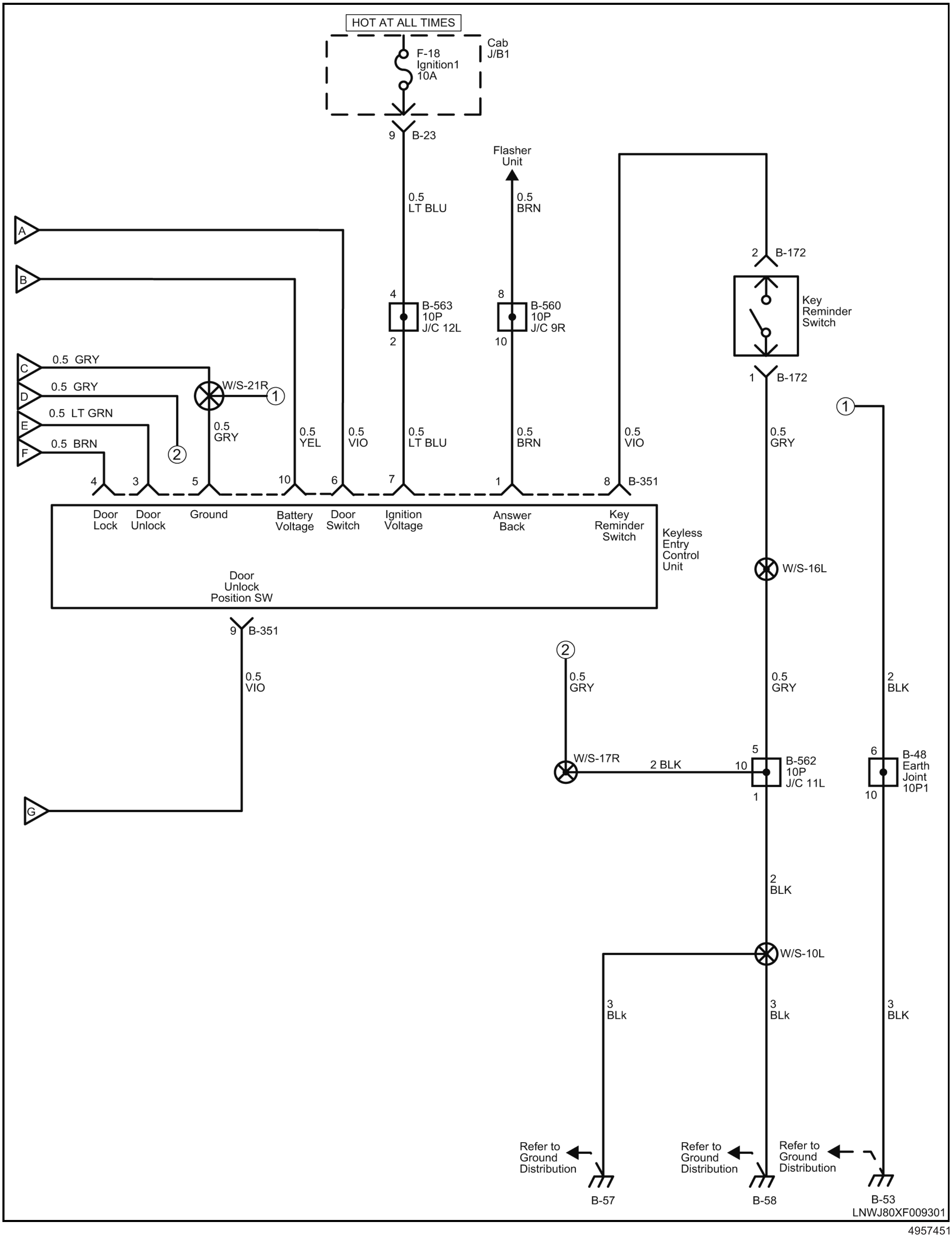
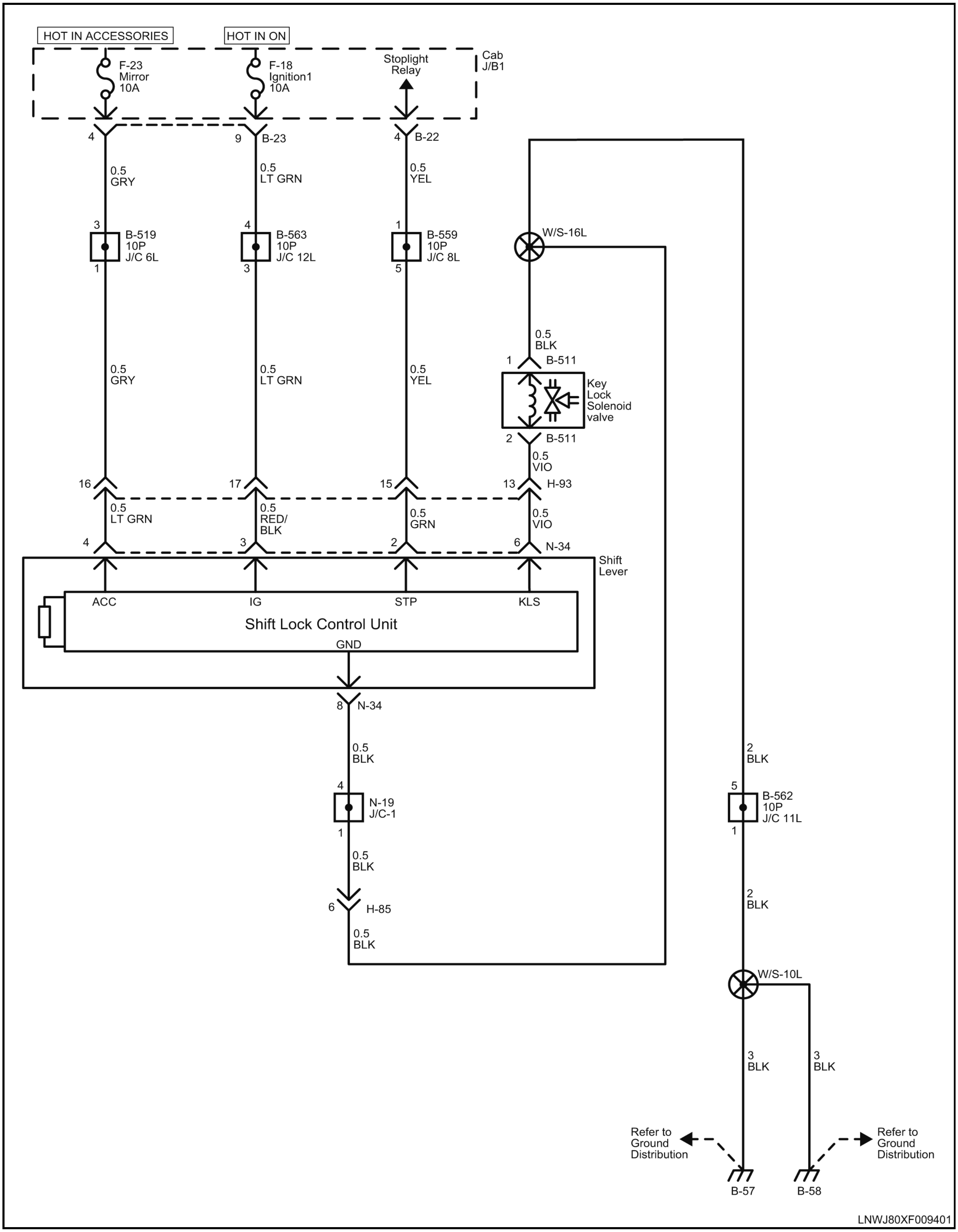
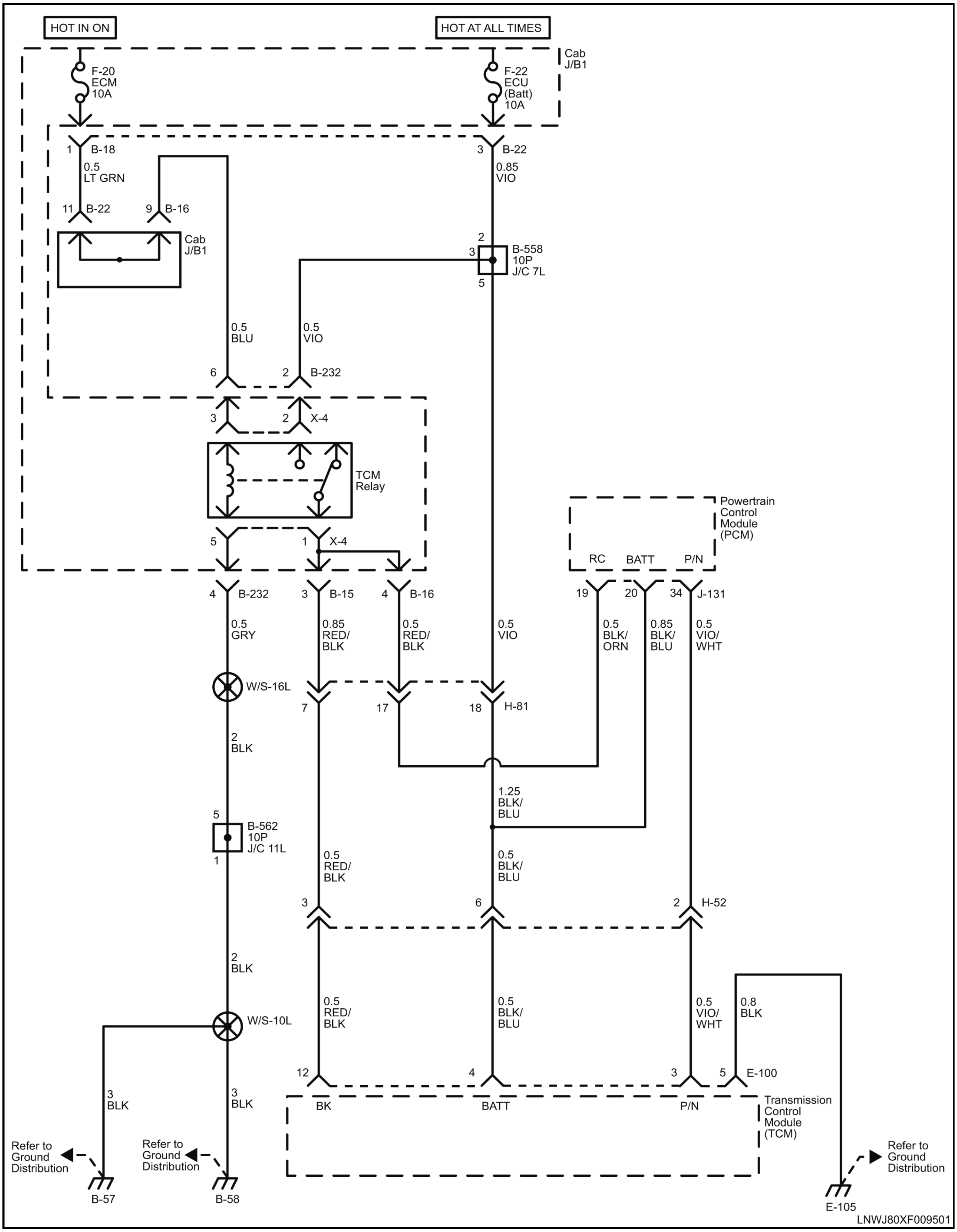

HOT AT ALL TIMES
F-18
Ignition1
10A
Cab
J/B1
9
B-23
Flasher
Unit
0.5
LT BLU
0.5
BRN
A
B
2
B-172
Key
Reminder
Switch
1
B-172
4
B-563
10P
J/C 12L
2
8
B-560
10P
J/C 9R
10
C
0.5 GRY
D
0.5 GRY
E
0.5 LT GRN
F
0.5 BRN
W/S-21R
①
②
0.5
GRY
0.5
YEL
0.5
VIO
0.5
LT BLU
0.5
BRN
0.5
VIO
0.5
GRY
①
4
3
5
10
6
7
1
8
B-351
Door
Lock
Door
Unlock
Ground
Battery
Voltage
Door
Switch
Ignition
Voltage
Answer
Back
Key
Reminder
Switch
Keyless
Entry
Control
Unit
Door
Unlock
Position SW
W/S-16L
9
B-351
0.5
VIO
②
0.5
GRY
0.5
GRY
2
BLK
W/S-17R
2 BLK
5
10
B-562
10P
J/C 11L
1
6
B-48
Earth
Joint
10P1
10
G
2
BLK
W/S-10L
3
BLk
3
BLk
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-57
B-58
B-53
LNWJ80XF009301

4957451

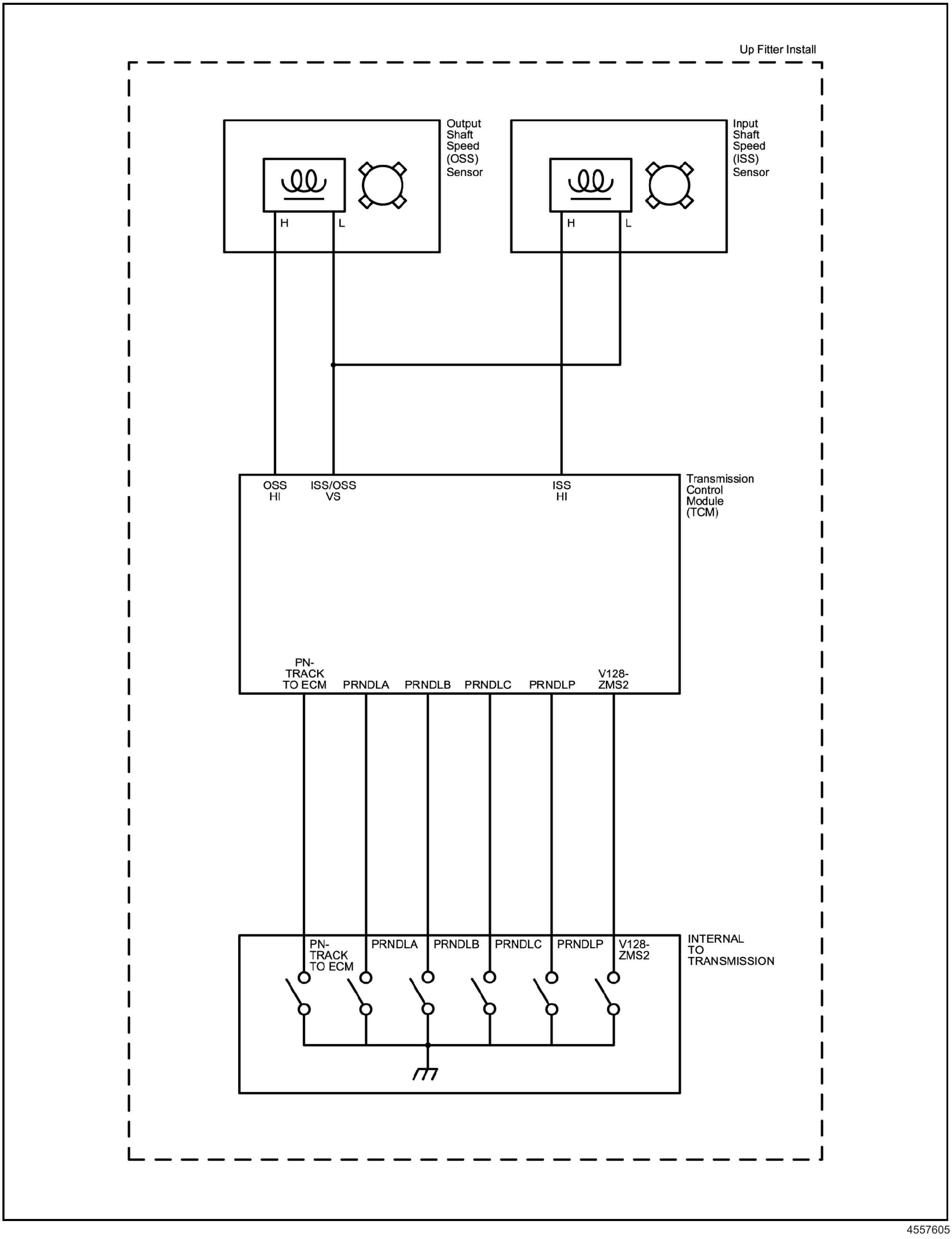
Transmission Control Module Schematics


HOT IN ACCESSORIES
HOT IN ON
F-23
Mirror
10A
F-18
Ignition1
10A
Stoplight
Relay
Cab
J/B1
4
9
B-23
4
B-22
0.5
GRY
0.5
LT GRN
0.5
YEL
3
B-519
10P
J/C 6L
1
4
B-563
10P
J/C 12L
3
1
B-559
10P
J/C 8L
5
W/S-16L
0.5
BLK
1
B-511
Key
Lock
Solenoid
valve
2
B-511
0.5
VIO
0.5
GRY
0.5
LT GRN
0.5
YEL
16
17
15
13
H-93
0.5
LT GRN
0.5
RED/
BLK
0.5
GRN
0.5
VIO
4
3
2
6
N-34
Shift
Lever
ACC
IG
STP
KLS
Shift Lock Control Unit
GND
8
N-34
0.5
BLK
4
N-19
J/C-1
1
0.5
BLK
6
H-85
0.5
BLK
2
BLK
5
B-562
10P
J/C 11L
1
2
BLK
W/S-10L
3
BLK
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-57
B-58
LNWJ80XF009401

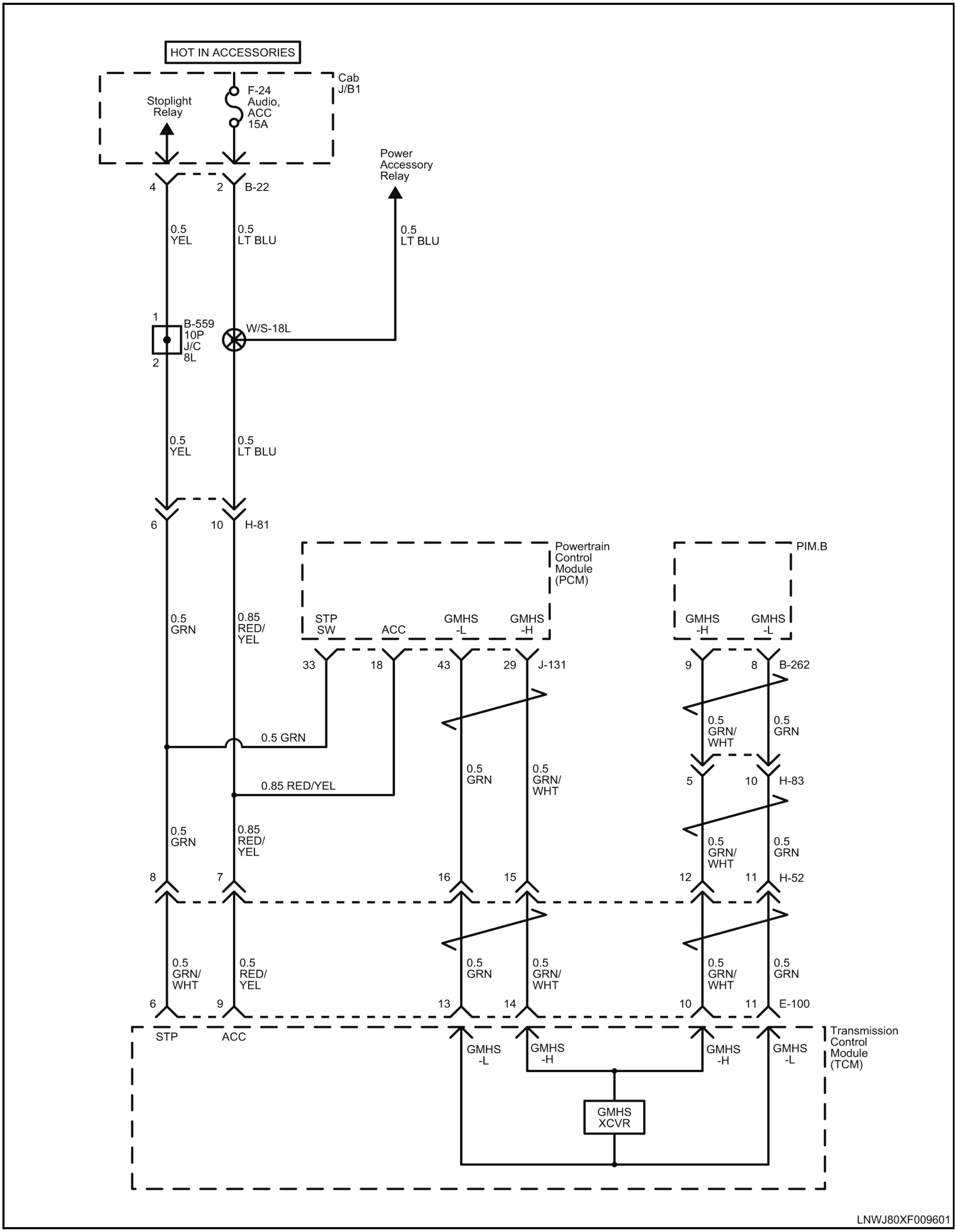
4957509


HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-20 ECM 10A
F-22 ECU (Batt) 10A
1 B-18
3 B-22
0.5 LT GRN
0.85 VIO
11 B-22
9 B-16
Cab J/B1
2
3
B-558 10P J/C 7L
5
0.5 BLU
0.5 VIO
6
2 B-232
3
2 X-4
TCM Relay
5
1 X-4
Powertrain Control Module (PCM)
RC
BATT
P/N
4 B-232
3 B-15
4 B-16
19
20
34 J-131
0.5 GRY
0.85 RED/ BLK
0.5 RED/ BLK
0.5 VIO
0.5 BLK/ ORN
0.85 BLK/ BLU
0.5 VIO/ WHT
W/S-16L
7
17
18 H-81
2 BLK
1.25 BLK/ BLU
5
B-562 10P J/C 11L
1
0.5 RED/ BLK
0.5 BLK/ BLU
3
6
2 H-52
2 BLK
W/S-10L
0.5 RED/ BLK
0.5 BLK/ BLU
0.5 VIO/ WHT
0.8 BLK
12
4
3
5 E-100
BK
BATT
P/N
Transmission Control Module (TCM)
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
E-105
LNWJ80XF009501

4957510

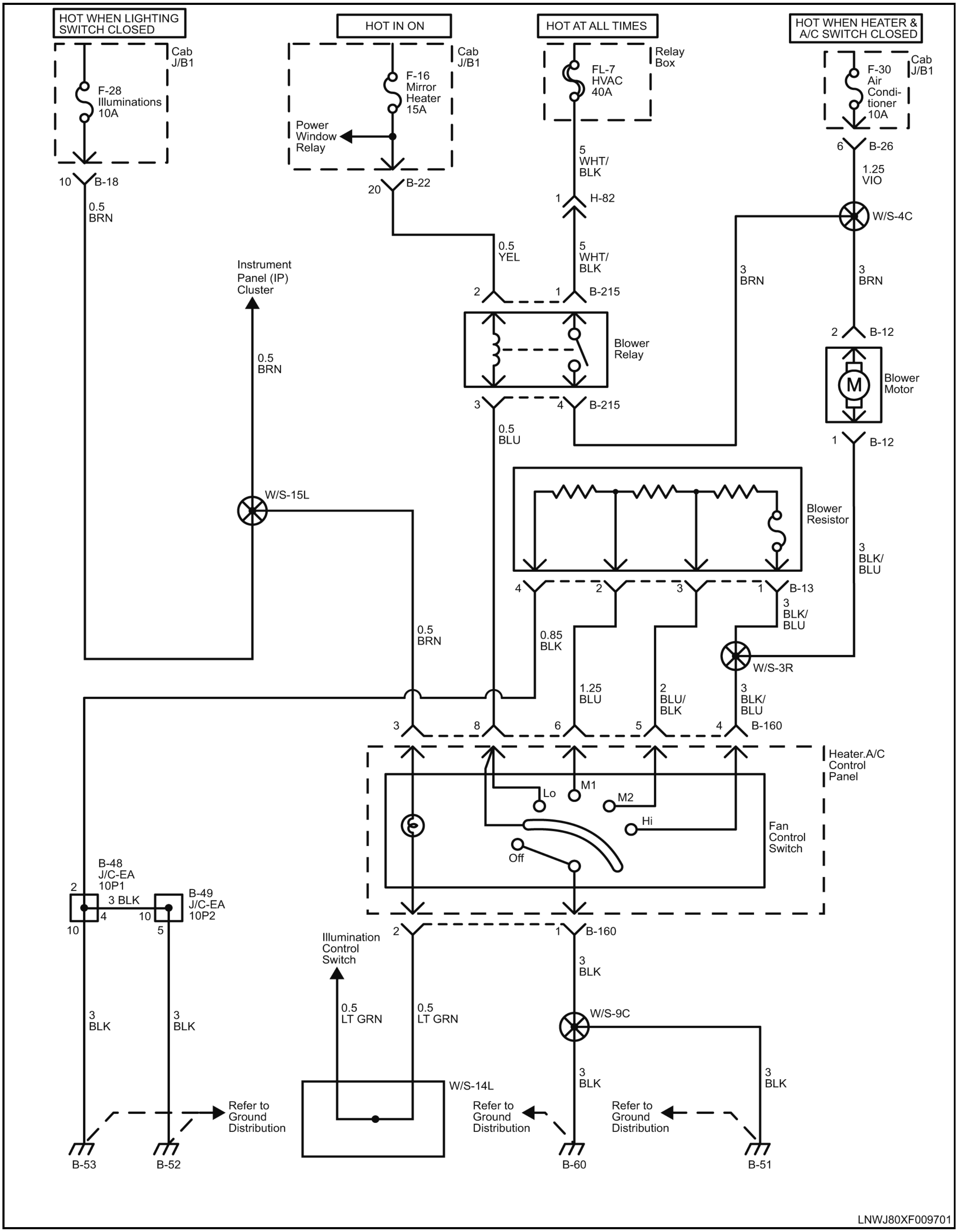

Up Fitter Install
Output Shaft Speed (OSS) Sensor
H
L
Input Shaft Speed (ISS) Sensor
H
L
OSS HI
ISS/OSS VS
ISS HI
Transmission Control Module (TCM)
PN-TRACK TO ECM
PRNDLA
PRNDLB
PRNDLC
PRNDLP
V128-ZMS2
PN-TRACK TO ECM
PRNDLA
PRNDLB
PRNDLC
PRNDLP
V128-ZMS2
INTERNAL TO TRANSMISSION

4557605

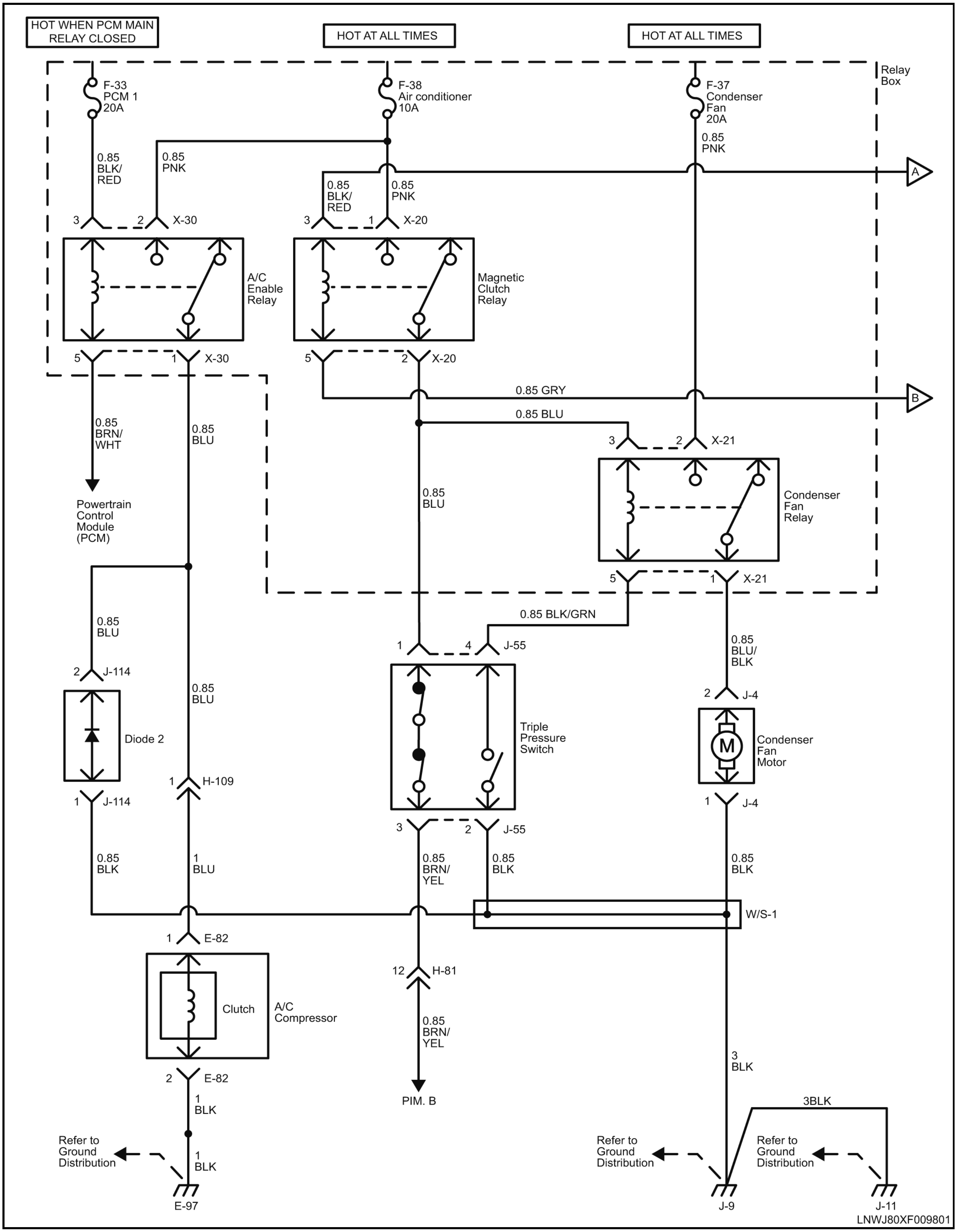

HOT IN ACCESSORIES
Cab J/B1
Stoplight Relay
F-24 Audio, ACC 15A
Power Accessory Relay
4
2
B-22
0.5 YEL
0.5 LT BLU
0.5 LT BLU
1
B-559 10P J/C 8L
2
W/S-18L
0.5 YEL
0.5 LT BLU
6
10
H-81
Powertrain Control Module (PCM)
PIM.B
0.5 GRN
0.85 RED/ YEL
STP SW
ACC
GMHS -L
GMHS -H
GMHS -H
GMHS -L
33
18
43
29
J-131
9
8
B-262
0.5 GRN
0.5 GRN/ WHT
0.5 GRN
0.85 RED/YEL
0.5 GRN
0.5 GRN/ WHT
5
10
H-83
0.5 GRN
0.85 RED/ YEL
0.5 GRN/ WHT
0.5 GRN
8
7
16
15
12
11
H-52
0.5 GRN/ WHT
0.5 RED/ YEL
0.5 GRN
0.5 GRN/ WHT
0.5 GRN/ WHT
0.5 GRN
6
9
13
14
10
11
E-100
STP
ACC
GMHS -L
GMHS -H
GMHS -H
GMHS -L
Transmission Control Module (TCM)
GMHS XCVR
LNWJ80XF009601

4957512

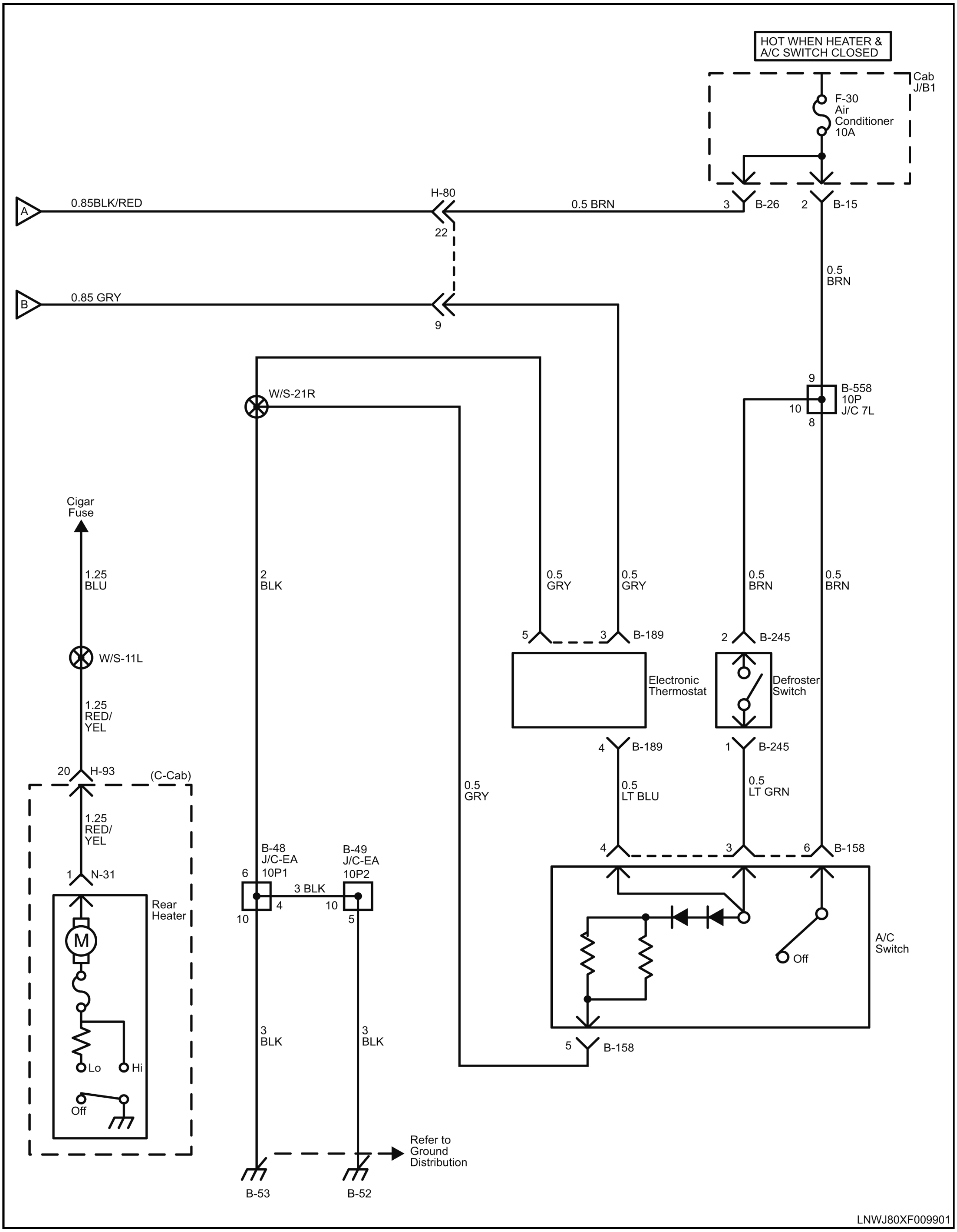
HVAC Schematics


HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-28 Illuminations 10A
10 B-18
0.5 BRN
HOT IN ON
F-16 Mirror Heater 15A
Power Window Relay
20 B-22
0.5 YEL
HOT AT ALL TIMES
Relay Box
FL-7 HVAC 40A
5 WHT/BLK
1 H-82
5 WHT/BLK
2 1 B-215
Blower Relay
3 4 B-215
0.5 BLU
HOT WHEN HEATER & A/C SWITCH CLOSED
F-30 Air Conditioner 10A
6 B-26
1.25 VIO
W/S-4C
3 BRN
3 BRN
2 B-12
Blower Motor
M
1 B-12
Instrument Panel (IP) Cluster
0.5 BRN
W/S-15L
Blower Resistor
3 BLK/BLU
4 2 3 1 B-13
3 BLK/BLU
W/S-3R
0.5 BRN
0.85 BLK
1.25 BLU
2 BLU/BLK
3 BLK/BLU
3 8 6 5 4 B-160
Heater.A/C Control Panel
M1
Lo
M2
Hi
Off
Fan Control Switch
B-48 J/C-EA 10P1
2
3 BLK
4
10
B-49 J/C-EA 10P2
10
5
2 1 B-160
Illumination Control Switch
0.5 LT GRN
0.5 LT GRN
3 BLK
W/S-9C
3 BLK
3 BLK
3 BLK
3 BLK
W/S-14L
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
B-60
B-51
LNWJ80XF009701

4957628

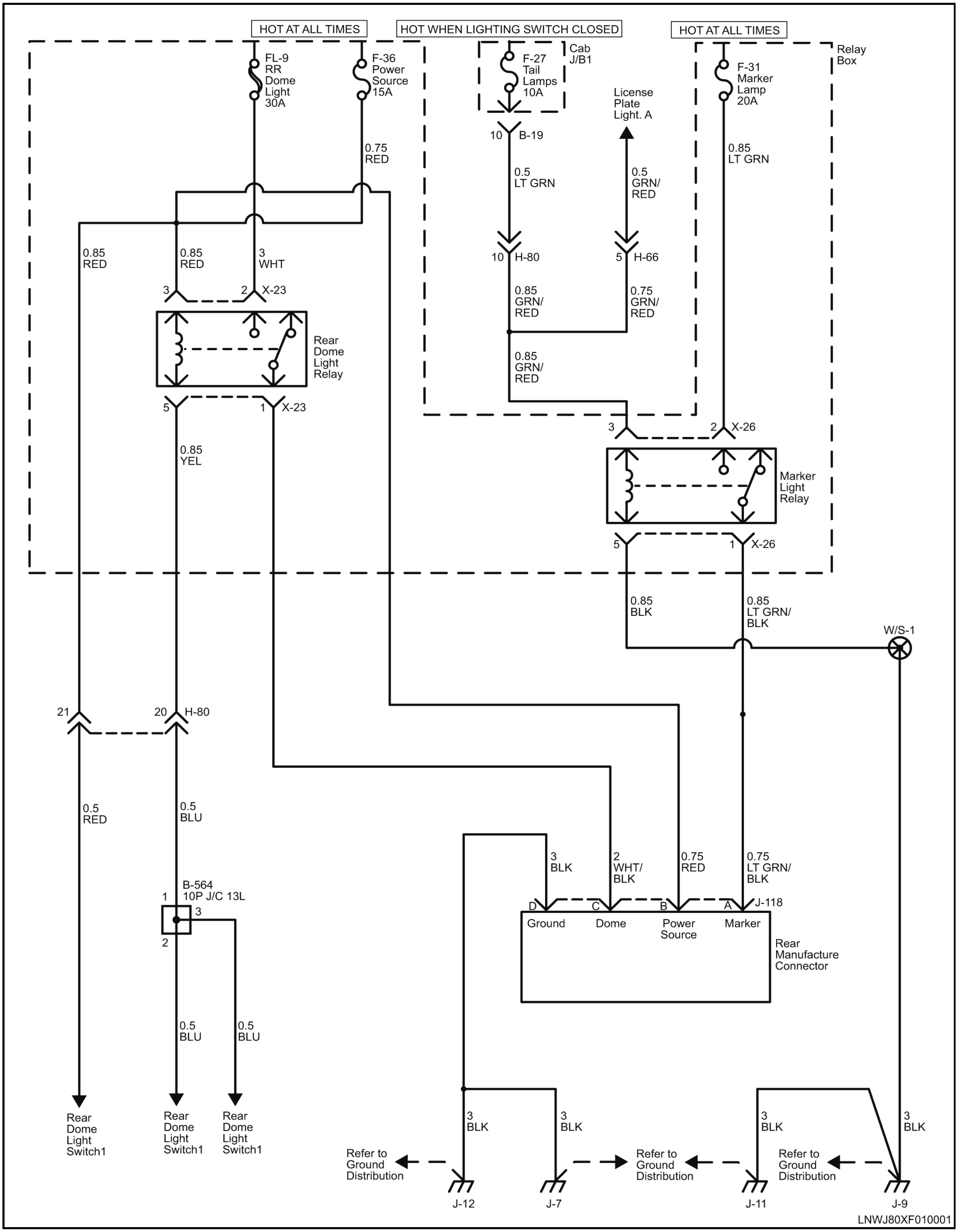

HOT WHEN PCM MAIN RELAY CLOSED
HOT AT ALL TIMES
HOT AT ALL TIMES
Relay Box
F-33 PCM 1 20A
F-38 Air conditioner 10A
F-37 Condenser Fan 20A
0.85 BLK/RED
0.85 PNK
0.85 PNK
0.85 BLK/RED
0.85 PNK
A
3 2 X-30
3 1 X-20
A/C Enable Relay
Magnetic Clutch Relay
5 1 X-30
5 2 X-20
0.85 GRY
B
0.85 BLU
0.85 BRN/WHT
0.85 BLU
Powertrain Control Module (PCM)
0.85 BLU
3 2 X-21
Condenser Fan Relay
5 1 X-21
0.85 BLK/GRN
0.85 BLU
2 J-114
Diode 2
1 J-114
0.85 BLU
1 H-109
1 4 J-55
Triple Pressure Switch
3 2 J-55
0.85 BLU/BLK
2 J-4
Condenser Fan Motor
M
1 J-4
0.85 BLK
1 BLU
0.85 BRN/YEL
0.85 BLK
0.85 BLK
W/S-1
1 E-82
Clutch
A/C Compressor
2 E-82
12 H-81
0.85 BRN/YEL
PIM. B
1 BLK
1 BLK
3 BLK
3BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
E-97
J-9
J-11
LNWJ80XF009801

4957645


HOT WHEN HEATER &
A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
3 B-26
2 B-15
A
0.85BLK/RED
H-80
0.5 BRN
22
B
0.85 GRY
9
0.5 BRN
9
B-558 10P J/C 7L
10
8
W/S-21R
Cigar Fuse
1.25 BLU
W/S-11L
1.25 RED/ YEL
20 H-93
(C-Cab)
1.25 RED/ YEL
1 N-31
Rear Heater
M
Lo
Hi
Off
2 BLK
0.5 GRY
0.5 GRY
0.5 BRN
0.5 BRN
5
3 B-189
2 B-245
Electronic Thermostat
Defroster Switch
4 B-189
1 B-245
0.5 GRY
0.5 LT BLU
0.5 LT GRN
B-48 J/C-EA 10P1
B-49 J/C-EA 10P2
6
3 BLK
4
10
10
5
4
3
6 B-158
A/C Switch
Off
5 B-158
3 BLK
3 BLK
Refer to Ground Distribution
B-53
B-52
LNWJ80XF009901

4957660

Service Terminal Schematics


HOT AT ALL TIMES
HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
FL-9 RR Dome Light 30A
F-36 Power Source 15A
F-27 Tail Lamps 10A
Cab J/B1
License Plate Light. A
F-31 Marker Lamp 20A
Relay Box
0.75 RED
10 B-19
0.5 LT GRN
0.5 GRN/ RED
0.85 LT GRN
0.85 RED
0.85 RED
3 WHT
10 H-80
5 H-66
3
2 X-23
0.85 GRN/ RED
0.75 GRN/ RED
Rear Dome Light Relay
0.85 GRN/ RED
5
1 X-23
3
2 X-26
0.85 YEL
Marker Light Relay
5
1 X-26
0.85 BLK
0.85 LT GRN/ BLK
W/S-1
21
20 H-80
0.5 RED
0.5 BLU
B-564
1 10P J/C 13L
3
2
3 BLK
2 WHT/ BLK
0.75 RED
0.75 LT GRN/ BLK
D
C
B
A J-118
Ground
Dome
Power Source
Marker
Rear Manufacture Connector
0.5 BLU
0.5 BLU
Rear Dome Light Switch1
Rear Dome Light Switch1
Rear Dome Light Switch1
3 BLK
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
J-12
J-7
J-11
J-9
LNWJ80XF010001

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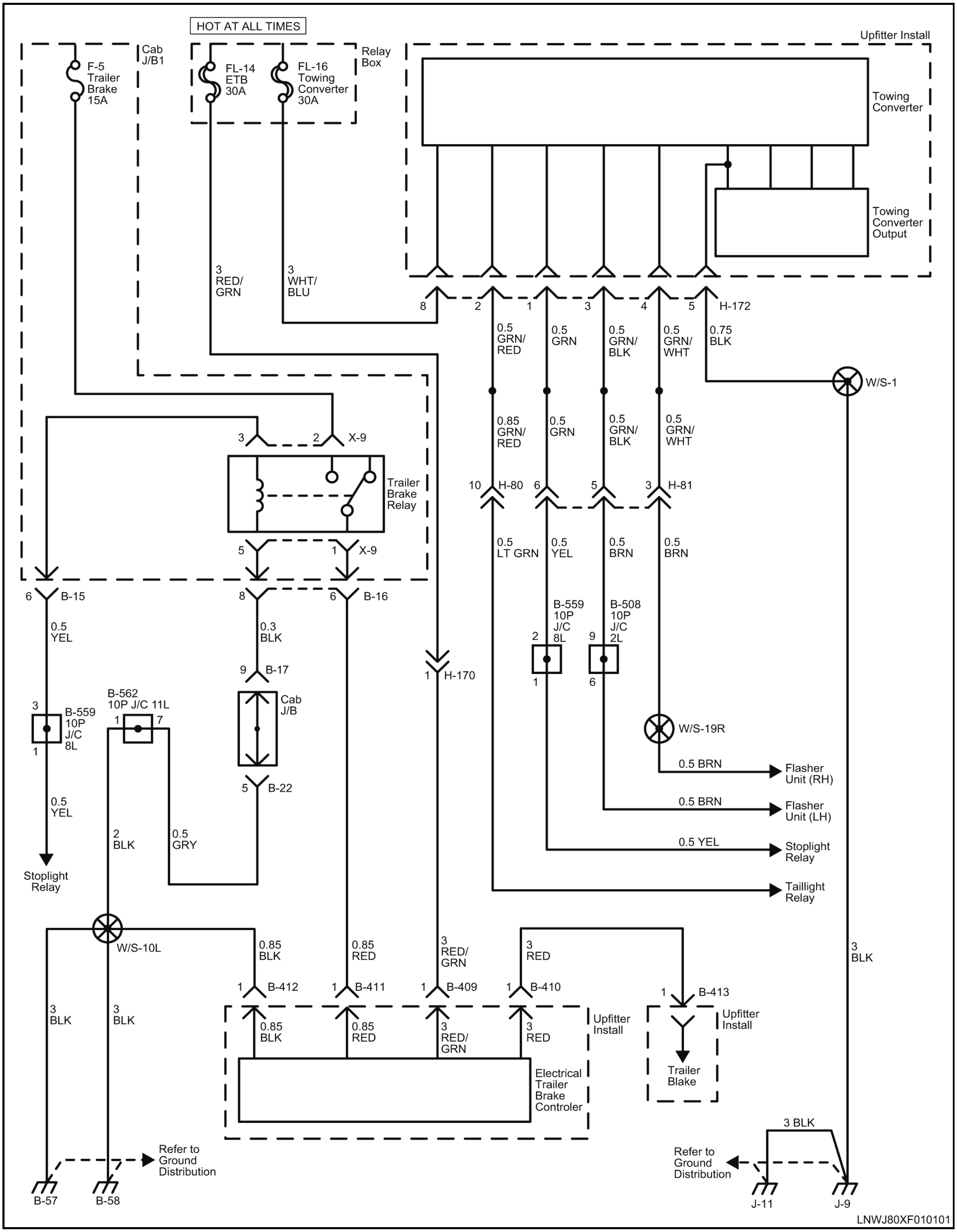
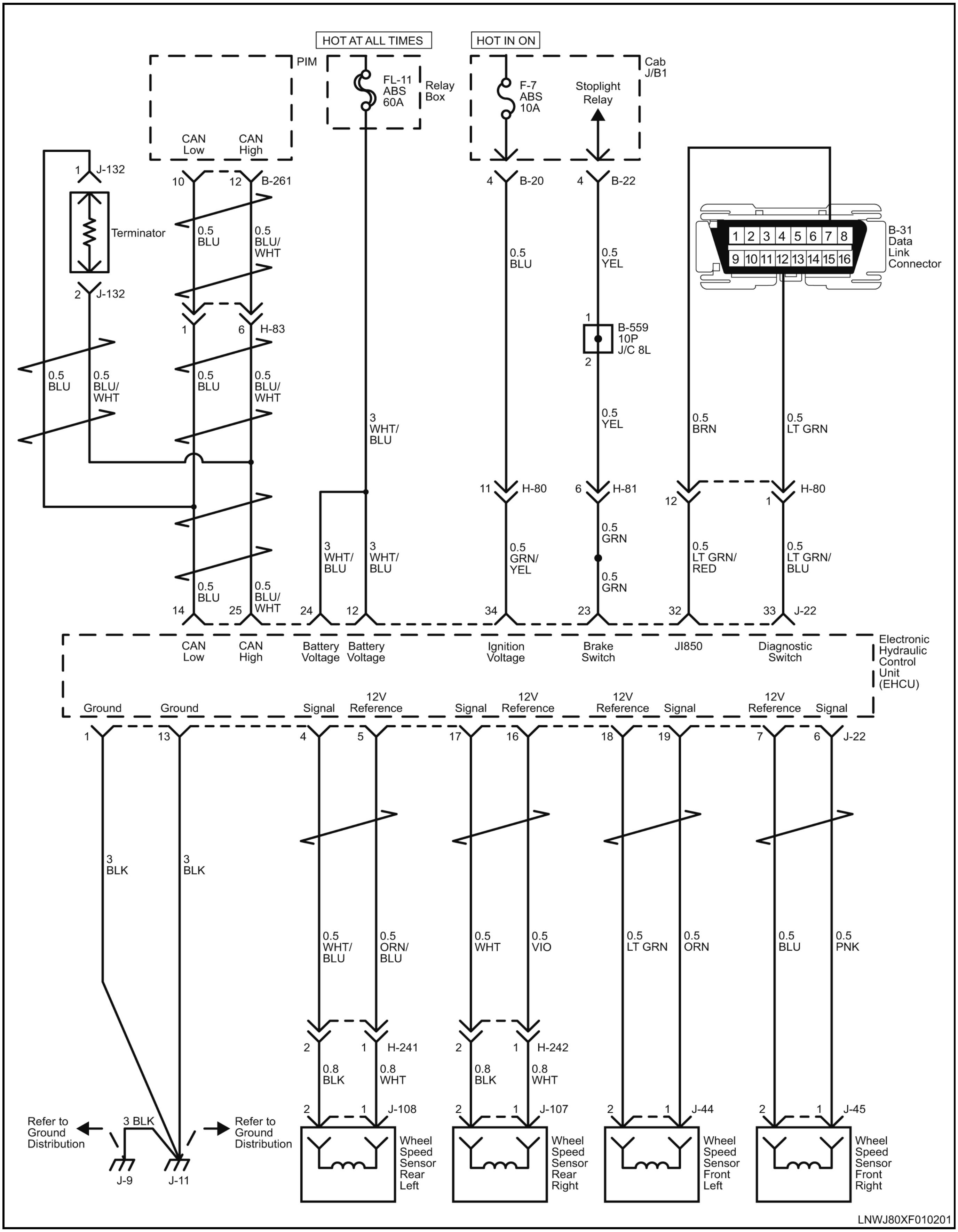

HOT AT ALL TIMES
F-5
Trailer
Brake
15A
Cab
J/B1
FL-14
ETB
30A
FL-16
Towing
Converter
30A
Relay
Box
Upfitter Install
Towing
Converter
Towing
Converter
Output
3
RED/
GRN
3
WHT/
BLU
8
2
1
3
4
5
H-172
0.5
GRN/
RED
0.5
GRN
0.5
GRN/
BLK
0.5
GRN/
WHT
0.75
BLK
W/S-1
0.85
GRN/
RED
0.5
GRN
0.5
GRN/
BLK
0.5
GRN/
WHT
3
2
X-9
Trailer
Brake
Relay
10
H-80
6
5
3
H-81
0.5
LT GRN
0.5
YEL
0.5
BRN
0.5
BRN
5
1
X-9
6
B-15
8
6
B-16
0.5
YEL
0.3
BLK
B-559
10P
J/C
8L
B-508
10P
J/C
2L
2
9
1
6
9
B-17
1
H-170
Cab
J/B
3
B-559
10P
J/C
8L
1
B-562
10P J/C 11L
1
7
W/S-19R
0.5 BRN
Flasher
Unit (RH)
5
B-22
0.5 BRN
Flasher
Unit (LH)
0.5
YEL
2
BLK
0.5
GRY
0.5 YEL
Stoplight
Relay
Stoplight
Relay
Taillight
Relay
W/S-10L
0.85
BLK
0.85
RED
3
RED/
GRN
3
RED
3
BLK
1
B-412
1
B-411
1
B-409
1
B-410
1
B-413
3
BLK
3
BLK
0.85
BLK
0.85
RED
3
RED/
GRN
3
RED
Upfitter
Install
Upfitter
Install
Trailer
Blake
Electrical
Trailer
Brake
Controler
3 BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-57
B-58
J-11
J-9
LNWJ80XF010101

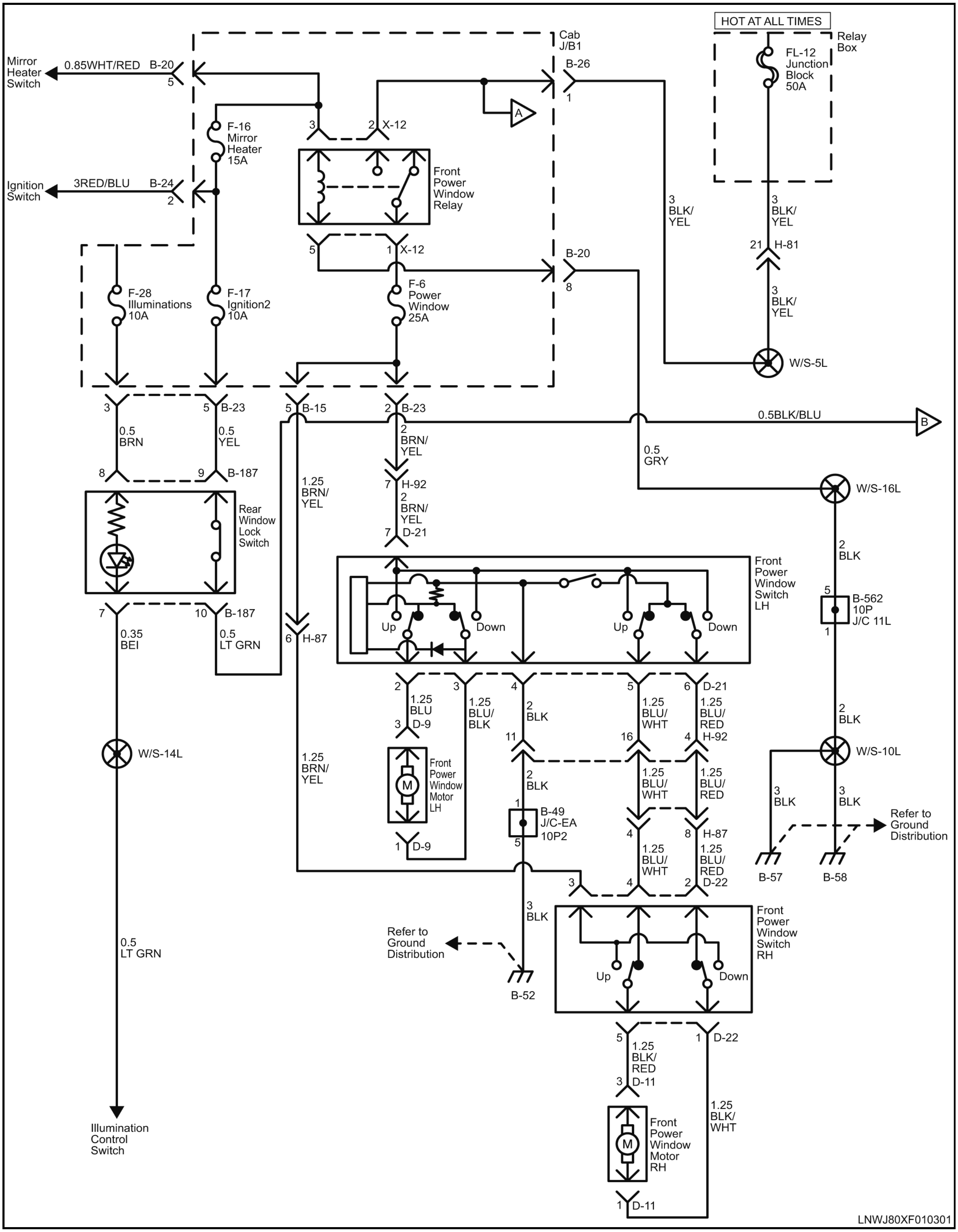
4957688

Antilock Brake System Schematics


HOT AT ALL TIMES
HOT IN ON
PIM
CAN Low
CAN High
FL-11 ABS 60A
Relay Box
F-7 ABS 10A
Stoplight Relay
Cab J/B1
1 J-132
Terminator
2 J-132
10 12 B-261
0.5 BLU
0.5 BLU/ WHT
1 6 H-83
4 B-20
4 B-22
0.5 BLU
0.5 YEL
1 B-559 10P J/C 8L 2
B-31 Data Link Connector
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
3 WHT/ BLU
0.5 BRN
0.5 LT GRN
11 H-80
6 H-81
12 1 H-80
0.5 GRN/ YEL
0.5 GRN
0.5 LT GRN/ RED
0.5 LT GRN/ BLU
14 25 24 12 34 23 32 33 J-22
CAN Low
CAN High
Battery Voltage
Battery Voltage
Ignition Voltage
Brake Switch
JI850
Diagnostic Switch
Electronic Hydraulic Control Unit (EHCU)
Ground
Ground
Signal
12V Reference
Signal
12V Reference
12V Reference
Signal
12V Reference
Signal
1 13 4 5 17 16 18 19 7 6 J-22
3 BLK
3 BLK
0.5 WHT/ BLU
0.5 ORN/ BLU
0.5 WHT
0.5 VIO
0.5 LT GRN
0.5 ORN
0.5 BLU
0.5 PNK
2 1 H-241
2 1 H-242
0.8 BLK
0.8 WHT
2 1 J-108
2 1 J-107
2 1 J-44
2 1 J-45
Refer to Ground Distribution
3 BLK
J-9
J-11
Wheel Speed Sensor Rear Left
Wheel Speed Sensor Rear Right
Wheel Speed Sensor Front Left
Wheel Speed Sensor Front Right
LNWJ80XF010201

4957725

Power Window Schematics


HOT AT ALL TIMES
Relay Box
FL-12 Junction Block 50A
Cab J/B1
Mirror Heater Switch
0.85WHT/RED
B-20
5
B-26
1
F-16 Mirror Heater 15A
3
2
X-12
A
Ignition Switch
3RED/BLU
B-24
2
Front Power Window Relay
3 BLK/ YEL
3 BLK/ YEL
5
1
X-12
B-20
8
21
H-81
F-28 Illuminations 10A
F-17 Ignition2 10A
F-6 Power Window 25A
3 BLK/ YEL
W/S-5L
3
5
B-23
5
B-15
2
B-23
0.5BLK/BLU
B
0.5 BRN
0.5 YEL
2 BRN/ YEL
0.5 GRY
8
9
B-187
7
H-92
1.25 BRN/ YEL
2 BRN/ YEL
W/S-16L
Rear Window Lock Switch
7
D-21
Front Power Window Switch LH
2 BLK
5
B-562 10P J/C 11L
1
Up
Down
Up
Down
7
10
B-187
6
H-87
0.35 BEI
0.5 LT GRN
2
3
4
5
6
D-21
1.25 BLU
1.25 BLU/ BLK
2 BLK
1.25 BLU/ WHT
1.25 BLU/ RED
2 BLK
3
D-9
11
16
4
H-92
W/S-14L
W/S-10L
1.25 BRN/ YEL
Front Power Window Motor LH
M
2 BLK
1.25 BLU/ WHT
1.25 BLU/ RED
3 BLK
3 BLK
1
B-49 J/C-EA 10P2
Refer to Ground Distribution
5
4
8
H-87
1
D-9
1.25 BLU/ WHT
1.25 BLU/ RED
B-57
B-58
3
4
2
D-22
3 BLK
Front Power Window Switch RH
Refer to Ground Distribution
Up
Down
B-52
0.5 LT GRN
5
1
D-22
1.25 BLK/ RED
3
D-11
1.25 BLK/ WHT
Front Power Window Motor RH
M
Illumination Control Switch
1
D-11
LNWJ80XF010301

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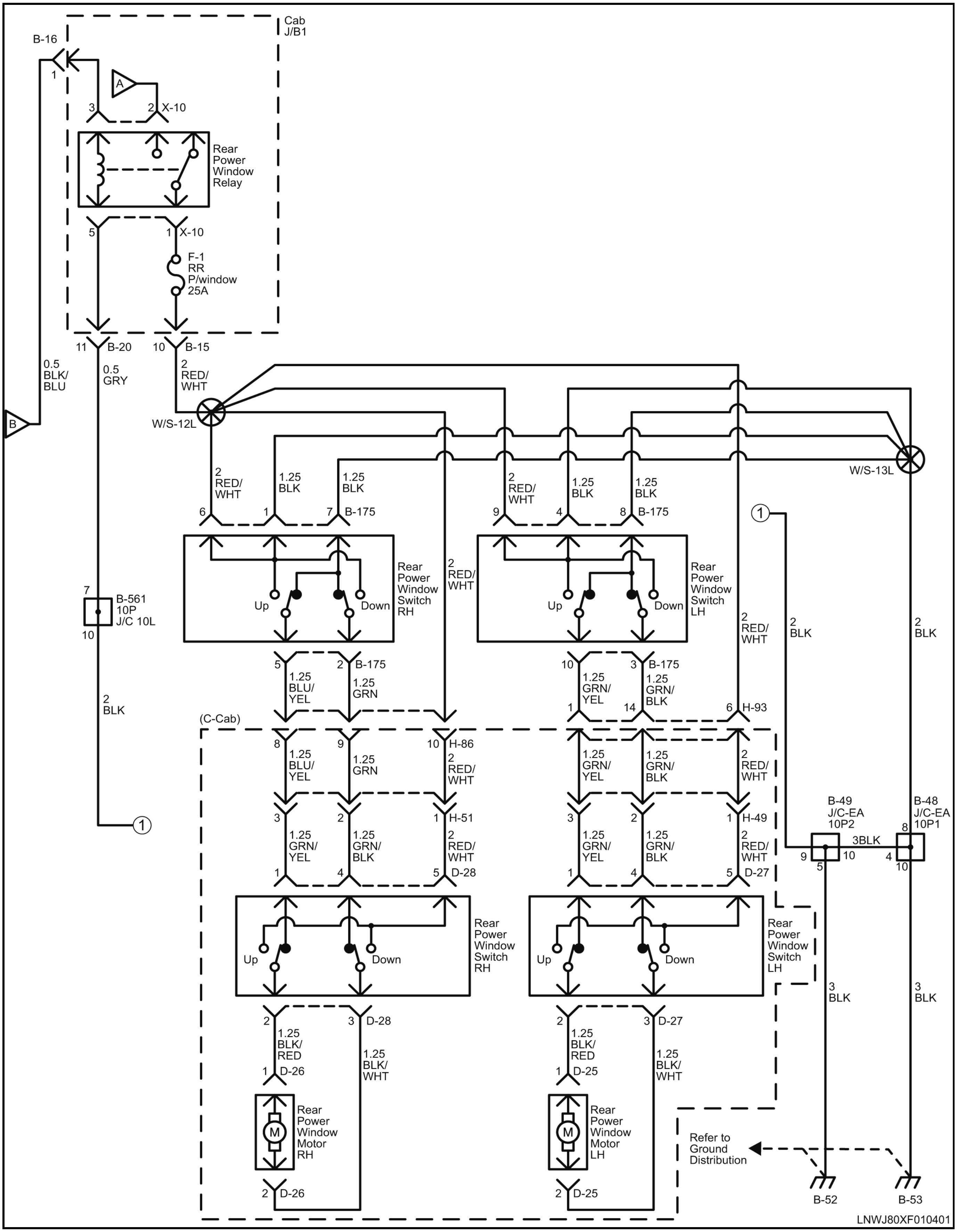
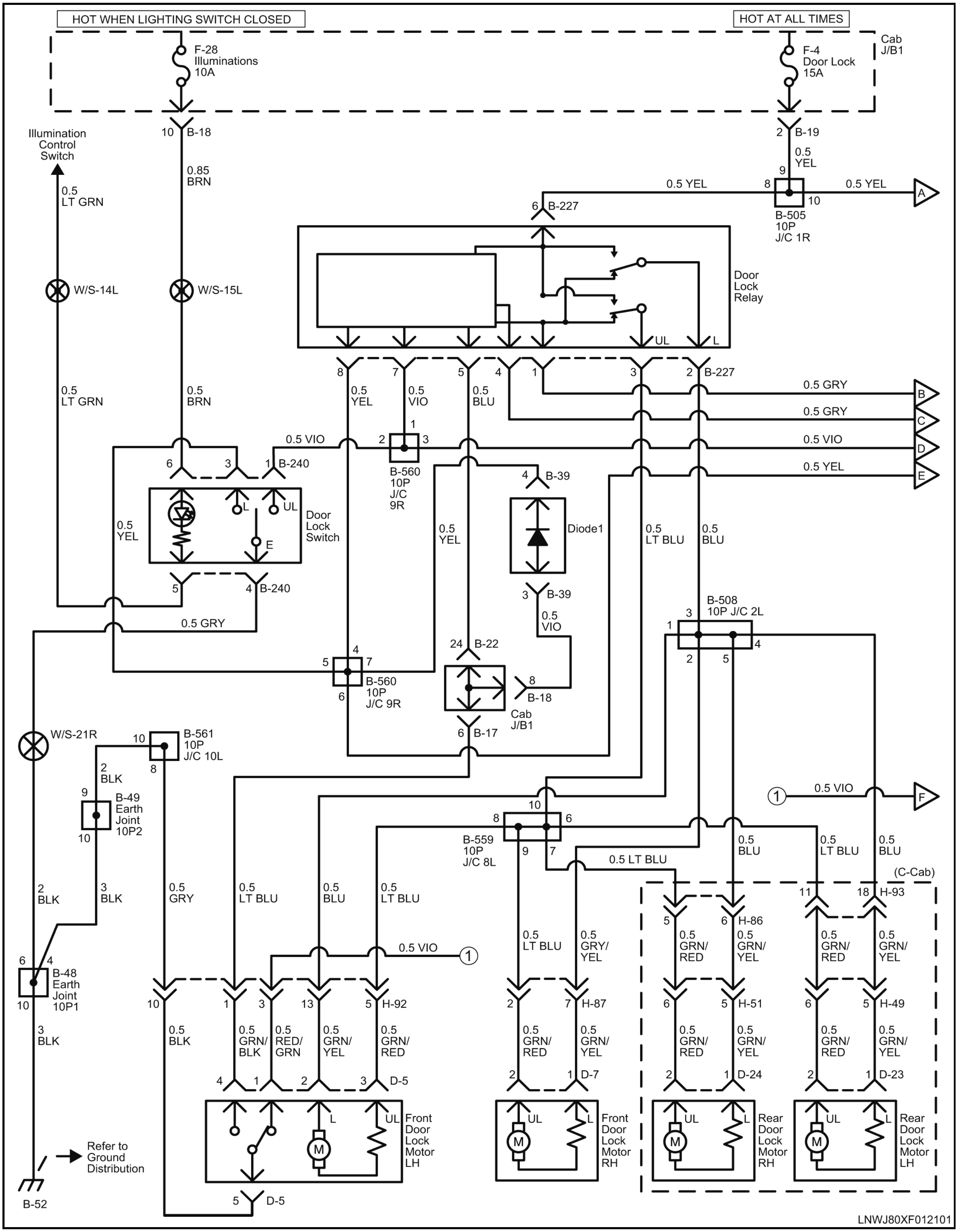
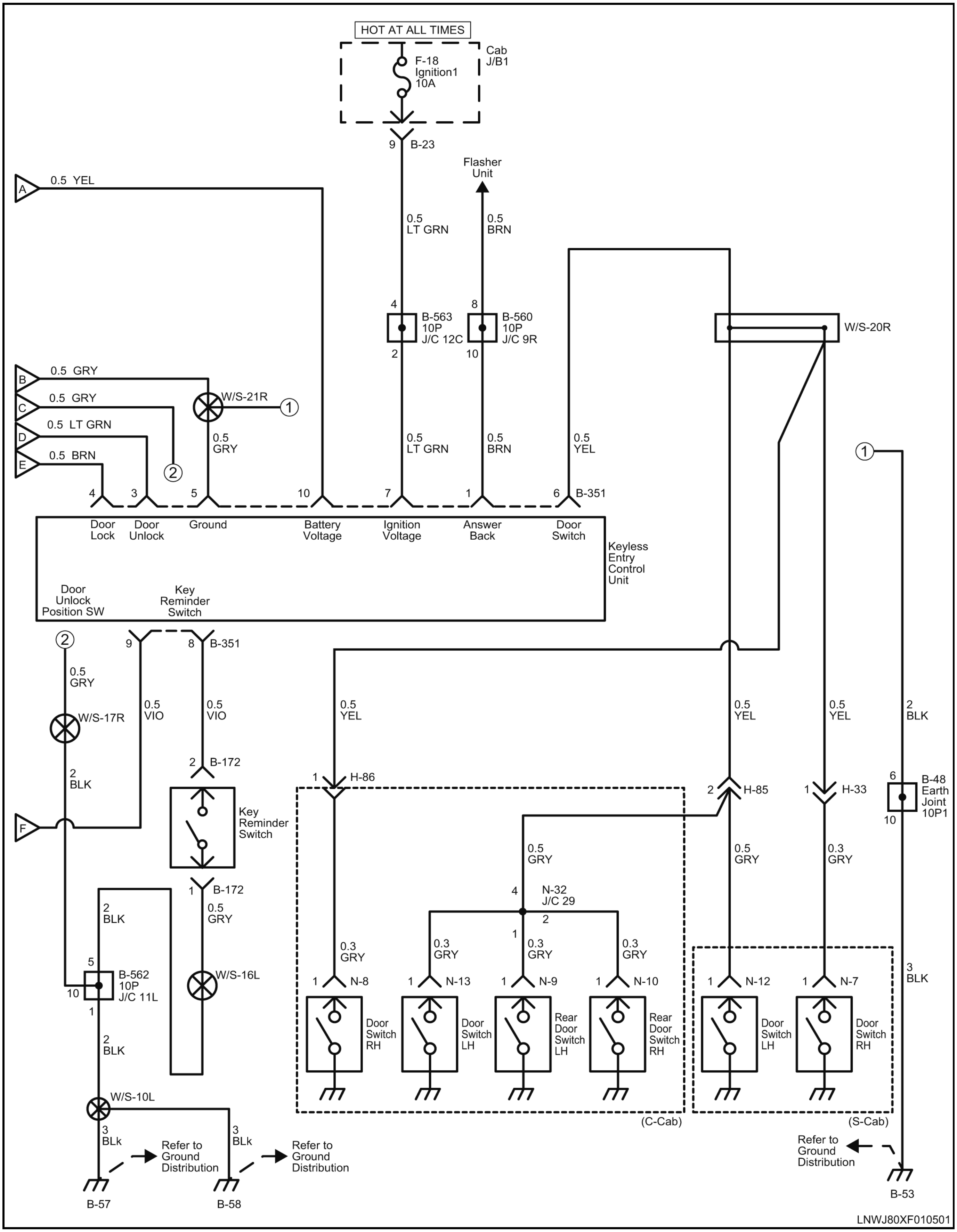

Cab J/B1
B-16
1
A
3
2 X-10
Rear Power Window Relay
5
1 X-10
F-1 RR P/window 25A
11 B-20
10 B-15
0.5 BLK/ BLU
0.5 GRY
2 RED/ WHT
B
W/S-12L
W/S-13L
2 RED/ WHT
1.25 BLK
1.25 BLK
6
1
7 B-175
2 RED/ WHT
1.25 BLK
1.25 BLK
9
4
8 B-175
1
Rear Power Window Switch RH
Up
Down
2 RED/ WHT
Rear Power Window Switch LH
Up
Down
2 RED/ WHT
2 BLK
2 BLK
7
B-561 10P J/C 10L
10
5
2 B-175
1.25 BLU/ YEL
1.25 GRN
10
3 B-175
1.25 GRN/ YEL
1.25 GRN/ BLK
1
14
6 H-93
2 BLK
(C-Cab)
8
9
10 H-86
1.25 BLU/ YEL
1.25 GRN
2 RED/ WHT
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
3
2
1 H-51
3
2
1 H-49
1
B-49 J/C-EA 10P2
B-48 J/C-EA 10P1
8
3BLK
9
5
10
4
10
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
1
4
5 D-28
1
4
5 D-27
Rear Power Window Switch RH
Up
Down
Rear Power Window Switch LH
Up
Down
3 BLK
3 BLK
2
3 D-28
2
3 D-27
1.25 BLK/ RED
1.25 BLK/ WHT
1.25 BLK/ RED
1.25 BLK/ WHT
1 D-26
1 D-25
M
Rear Power Window Motor RH
M
Rear Power Window Motor LH
Refer to Ground Distribution
2 D-26
2 D-25
B-52
B-53
LNWJ80XF010401

4957745

Power Door Lock Schematics


HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-28 Illuminations 10A
F-4 Door Lock 15A
10 B-18
2 B-19
Illumination Control Switch
0.5 LT GRN
0.85 BRN
0.5 YEL
0.5 YEL
0.5 YEL
B-505 10P J/C 1R
6 B-227
Door Lock Relay
UL
L
W/S-14L
W/S-15L
8 7 5 4 1 3 2 B-227
0.5 YEL
0.5 VIO
0.5 BLU
0.5 GRY
0.5 GRY
0.5 VIO
0.5 YEL
A B C D E F
B-560 10P J/C 9R
6 3 1 B-240
Door Lock Switch
L UL E
5 4 B-240
0.5 GRY
4 B-39
Diode1
3 B-39
0.5 VIO
0.5 LT BLU
0.5 BLU
B-508 10P J/C 2L
B-560 10P J/C 9R
24 B-22
8 B-18
Cab J/B1
6 B-17
W/S-21R
B-561 10P J/C 10L
2 BLK
B-49 Earth Joint 10P2
3 BLK
0.5 GRY
B-559 10P J/C 8L
0.5 LT BLU
(C-Cab)
11 18 H-93
5 6 H-86
0.5 GRN/RED
0.5 GRN/YEL
0.5 VIO
B-48 Earth Joint 10P1
1 3 13 5 H-92
2 7 H-87
6 5 H-51
6 5 H-49
0.5 BLK
0.5 GRN/BLK
0.5 RED/GRN
0.5 GRN/YEL
0.5 GRN/RED
0.5 GRY/YEL
4 1 2 3 D-5
2 1 D-7
2 1 D-24
2 1 D-23
Front Door Lock Motor LH
Front Door Lock Motor RH
Rear Door Lock Motor RH
Rear Door Lock Motor LH
M
Refer to Ground Distribution
B-52
5 D-5
LNWJ80XF012101

4957802


HOT AT ALL TIMES
Cab J/B1
F-18 Ignition1 10A
9 B-23
Flasher Unit
A 0.5 YEL
0.5 LT GRN
0.5 BRN
4 B-563 10P J/C 12C 2
8 B-560 10P J/C 9R 10
W/S-20R
B 0.5 GRY
C 0.5 GRY
D 0.5 LT GRN
E 0.5 BRN
W/S-21R
1
2
0.5 GRY
0.5 LT GRN
0.5 BRN
0.5 YEL
4 3 5 10 7 1 6 B-351
Door Lock
Door Unlock
Ground
Battery Voltage
Ignition Voltage
Answer Back
Door Switch
Keyless Entry Control Unit
Door Unlock Position SW
Key Reminder Switch
2
9 8 B-351
0.5 GRY
W/S-17R
2 BLK
F
0.5 VIO
0.5 VIO
2 B-172
Key Reminder Switch
1 B-172
0.5 GRY
W/S-16L
2 BLK
5 B-562 10P J/C 11L 10 1
2 BLK
W/S-10L
3 BLk
3 BLk
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
0.5 YEL
1 H-86
0.5 YEL
2 H-85
0.5 YEL
1 H-33
2 BLK
6 B-48 Earth Joint 10P1 10
0.5 GRY
4 N-32 J/C 29 2 1
0.5 GRY
0.3 GRY
0.3 GRY
0.3 GRY
0.3 GRY
0.3 GRY
1 N-8
1 N-13
1 N-9
1 N-10
1 N-12
1 N-7
Door Switch RH
Door Switch LH
Rear Door Switch LH
Rear Door Switch RH
Door Switch LH
Door Switch RH
(C-Cab)
(S-Cab)
3 BLK
Refer to Ground Distribution
B-53
LNWJ80XF010501

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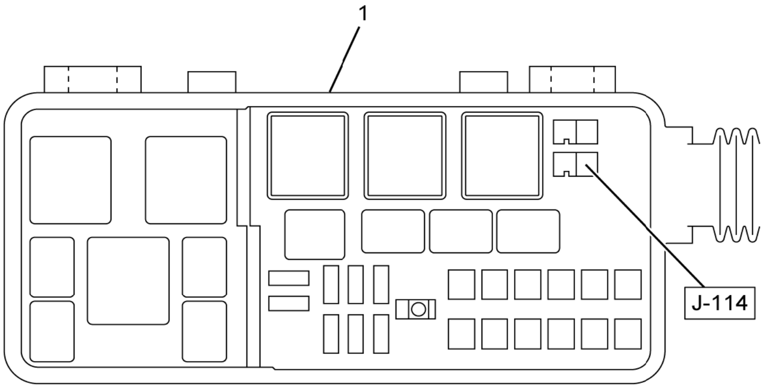
Component Locator

Diode Location



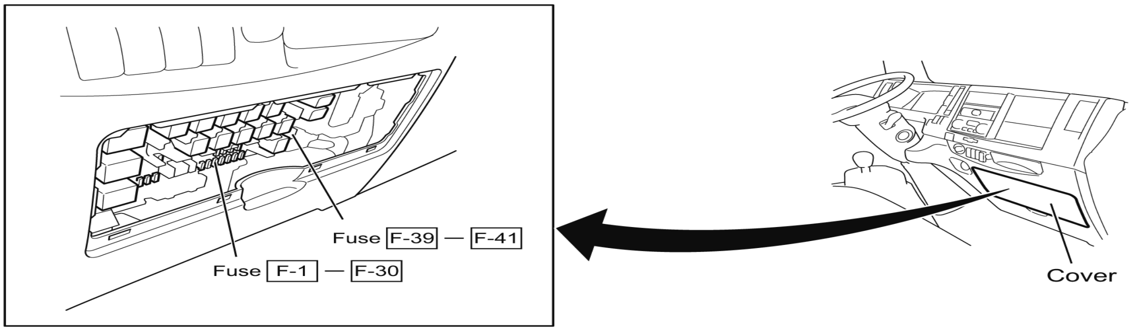
Connector No.	Usage
J-114	A/C

4555749

Legend

(1) Relay Box

Fuse, Fusible Link, and Slow-Blow Fuse Location



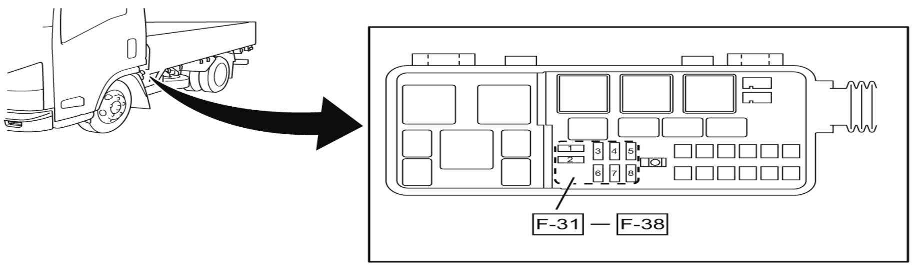
FUSE LABEL

RR P/WINDOW	—	ROOM LAMP,AUDIO	DOOR LOCK	TRAILER BRAKE	P/WINDOW	ABS	WIPER	H/LAMP LO (LH)	LAMPS (BATT)	H/LAMP LO (RH)	BRAKE LAMPS	STARTER	H/LAMP HI (LH)	H/LAMP HI (RH)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
25A		10A	15A	15A	25A	10A	25A	10A	10A	10A	10A	10A	10A	10A

SPARE SPARE SPARE SPARE

MIRROR HEATER	IGNITION2	IGNITION1	—	ECM	METER	ECU (BATT)	MIRROR	AUDIO, ACC	HORN	TURN, HAZARD	TAIL LAMPS	ILLUMINATIONS	CORNERING LAMPS	AIR CONDITIONER
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
15A	10A	10A		10A	10A	10A	10A	15A	15A	15A	10A	10A	10A	10A

F-39 (D-1)	20A	CIGAR
F-40 (D-2)	15A	ACCESSORIES SOCKET
F-41 (D-3)	20A	POWER SOURCE
F-42 (D-4)	10A	AUDIO REVERSE MUTE



1	20A F-31	MARKER LAMP
2	20A F-32	TAIL MAIN
3	20A F-33	PCM1
4	20A F-34	PCM2
5	20A F-35	PCM3
6	15A F-36	POWER SOURCE
7	20A F-37	CONDENSER FAN
8	10A F-38	AIR CONDITIONER

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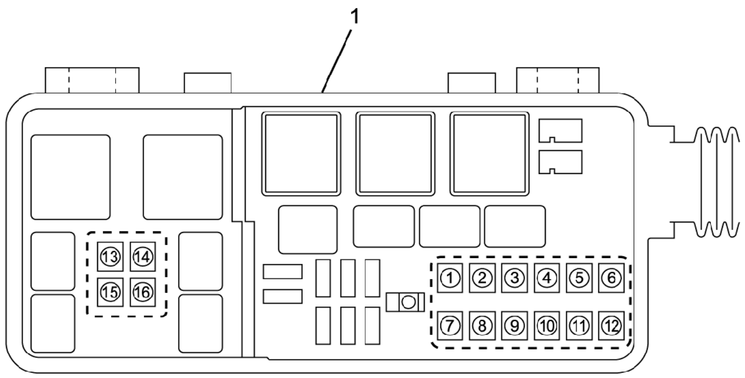
Note: The fuse numbers (1)-(30) indicated on the fuse labels are expressed as [F-1] – [F-30] in the circuit diagrams of this manual.

Slow Blow Fuse



No.	SBF No.	Name	Capacity
①	FL-1	PCM	40A
②	FL-2	STARTER	60A
③	FL-3	POWER ACC	50A
④	FL-4	FUEL PUMP	30A
⑤	FL-5	STARTER SWITCH 2	40A
⑥	FL-6	STARTER SWITCH 1	30A
⑦	FL-7	HVAC	40A
⑧	FL-8	HEADLIGHT	30A
⑨	FL-9	RR DOME LIGHT	30A
⑩	FL-10	WIPER	50A
⑪	FL-11	ABS	60A
⑫	FL-12	JUNCTION BLOCK	50A
⑬	FL-13	—	—
⑭	FL-14	ETB	30A
⑮	FL-15	—	—
⑯	FL-16	TOWING CONVERTER	30A

4554808

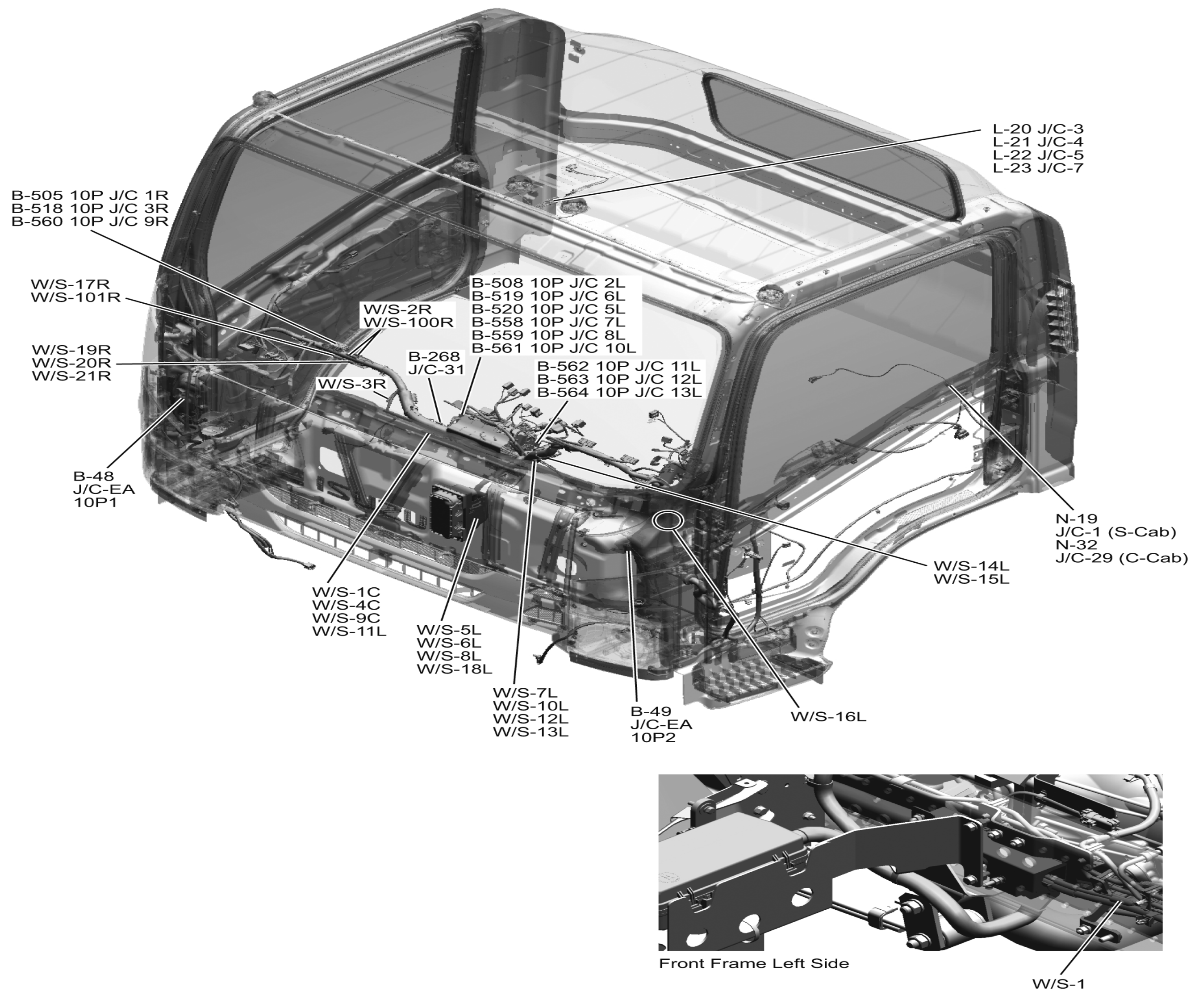
Legend

(1) Relay Box

Note: The slow blow fuse numbers (1)-(12) indicated on the fuse labels are expressed as [FL-1] – [FL-12] in the circuit diagrams of this manual.

Joint Connection and Weld Splice Location

Body Cable Harness


L-20 J/C-3
L-21 J/C-4
L-22 J/C-5
L-23 J/C-7
B-505 10P J/C 1R
B-518 10P J/C 3R
B-560 10P J/C 9R
W/S-17R
W/S-101R
B-508 10P J/C 2L
B-519 10P J/C 6L
B-520 10P J/C 5L
B-558 10P J/C 7L
B-559 10P J/C 8L
B-561 10P J/C 10L
W/S-2R
W/S-100R
W/S-19R
W/S-20R
W/S-21R
B-268
J/C-31
B-562 10P J/C 11L
B-563 10P J/C 12L
B-564 10P J/C 13L
W/S-3R
B-48
J/C-EA
10P1
N-19
J/C-1 (S-Cab)
N-32
J/C-29 (C-Cab)
W/S-14L
W/S-15L
W/S-1C
W/S-4C
W/S-9C
W/S-11L
W/S-5L
W/S-6L
W/S-8L
W/S-18L
W/S-7L
W/S-10L
W/S-12L
W/S-13L
B-49
J/C-EA
10P2
W/S-16L
Front Frame Left Side
W/S-1

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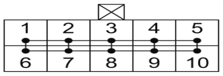
Joint Connection Circuit

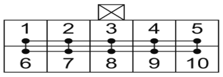
B-48 J/C-EA 10P1



Joint Point	Terminal No.	Connection
●	1	DRL Control Unit.A
●	2	Blower Resistor
●	3	Illumination Control Switch
●	4	J/C-EA 10P2
●	5	Side Marker Light RH Ground
●	6	W/S-21R
●	7	Mirror Heater RH Ground
●	8	W/S-13L
●	9	Headlight RH Ground
●	10	Cab Front (RH)

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

B-49 J/C-EA 10P2



Joint Point	Terminal No.	Connection
●	1	Front Power Window Switch LH Ground
●	2	Combination Switch Ground
●	3	Resistor
●	4	Audio
●	5	Cab Front (LH)
●	6	Headlight LH Ground
●	7	Vacuum Pump Ground
●	8	Mirror Heater LH Ground
●	9	10P J/C 10L
●	10	J/C-EA 10P1

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

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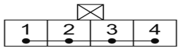
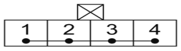
B-268 J/C-31



Joint Point	Terminal No.	Connection
●	1	Rear Dome Light
●	2	Dome Light
●	3	——
●	4	Cab Junction Block1,A

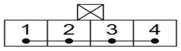
※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

N-19 J/C-1



Joint Point	Terminal No.	Connection
●	1	Inst H. - Floor LH H.
●	2	——
●	3	Seat Belt Switch
●	4	Shift Lever

N-32 J/C-29 (C-Cab)



Joint Point	Terminal No.	Connection
●	1	Rear Door Switch (LH)
●	2	Rear Door Switch (RH)
●	3	Door Switch (LH) (C-Cab)
●	4	W/S-20R

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

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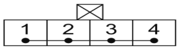
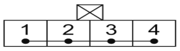
L-20 J/C-3



Joint Point	Terminal No.	Connection
●	1	Identification Light 3
●	2	Identification Light 2
●	3	Marker 1
●	4	J/C-7

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

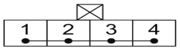
L-21 J/C-4



Joint Point	Terminal No.	Connection
●	1	Identification Light 3
●	2	Identification Light 2
●	3	Marker 1
●	4	J/C-5

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

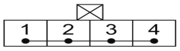
L-22 J/C-5



Joint Point	Terminal No.	Connection
●	1	Identification Light 1
●	2	Marker 2
●	3	J/C-4
●	4	W/S-17R

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

L-23 J/C-7



Joint Point	Terminal No.	Connection
●	1	Identification Light 1
●	2	Marker 2
●	3	J/C-3
●	4	10P J/C 6L

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

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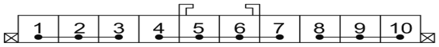
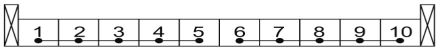
B-505 10P J/C 1R



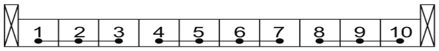
Joint Point	Terminal No.	Connection
●	1	Wiper Switch
●	2	Cab J/B1.J
●	3	Intermittent Relay
●	4	Diode 1
●	5	DRL Control Unit.A
●	6	Combination Switch
●	7	-
●	8	Door Lock Controller
●	9	Cab J/B1.F
●	10	Keyless Entry Control Unit

B-508 10P J/C 2L



Joint Point	Terminal No.	Connection
●	1	Inst H.~Door(LH) H.
●	2	Inst H.~Door(RH) H.
●	3	Door Lock Controller
●	4	Inst H.~Floor(LH) H. MT AT
●	5	Inst H.~Floor(RH) H.
●	6	Flasher Unit
●	7	Inst H.~Door(LH) H.
●	8	FRT Turn Signal Light
●	9	Inst H.~Frame FRT H.
●	10	Instrument Panel(IP) Cluster.A

B-518 10P J/C 3R



Joint Point	Terminal No.	Connection
●	1	Intermittent Relay
●	2	Wiper Switch
●	3	FRT Washer Motor
●	4	DRL Control Unit.A
●	5	Instrument Panel(IP) Cluster.A
●	6	Diode.A
●	7	Inst H.~Floor(LH) H.
●	8	Cornering Light Relay
●	9	Inst H.~Door(RH) H.
●	10	Inst H.~Door(LH) H.

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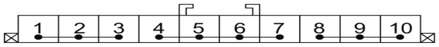
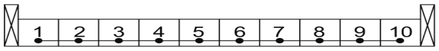
B-520 10P J/C 5L



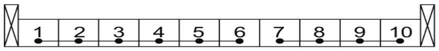
Joint Point	Terminal No.	Connection
●	1	DRL Control Unit.A
●	2	Cab J/B1.E
●	3	Combination Switch
●	4	Fuse Block
●	5	Instrument Panel(IP) Cluster.B
●	6	Inst H.~Floor(LH) H. MT AT
●	7	Inst H.~Frame FRT H.
●	8	Cab J/B1.K
●	9	Flasher Unit
●	10	Cornering Light Relay

B-519 10P J/C 6L



Joint Point	Terminal No.	Connection
●	1	Inst H.~Floor(LH) H. MT AT
●	2	RR Body Switch
●	3	Cab J/B1.K
●	4	Cab J/B1.F
●	5	Inst H.~Door(LH) H.
●	6	Inst H.~Roof H.
●	7	Inst H.~Door(RH) H.
●	8	Brake Fluid Level Switch
●	9	DRL Control Unit.A
●	10	Instrument Panel(IP) Cluster.A

B-558 10P J/C 7L



Joint Point	Terminal No.	Connection
●	1	Miles Check Switch
●	2	Cab J/B1.J
●	3	Cab J/B1.C
●	4	Instrument Panel(IP) Cluster.A
●	5	Inst H.~Frame FRT H.
●	6	PIM.B
●	7	-
●	8	A/C Switch
●	9	Cab J/B1.A
●	10	Defroster Switch

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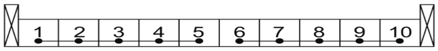
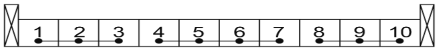
B-559 10P J/C 8L



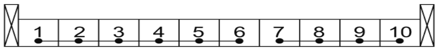
Joint Point	Terminal No.	Connection
●	1	Cab J/B1.J
●	2	Inst H.~Frame FRT H.
●	3	Cab J/B1.A
●	4	Resistor
●	5	Inst H.~Floor(LH) H. MT AT
●	6	Inst H.~Floor(LH) H. MT AT
●	7	Inst H.~Floor(RH) H.
●	8	Inst H.~Door(LH) H.
●	9	Inst H.~Door(RH) H.
●	10	Door Lock Controller

B-560 10P J/C 9R



Joint Point	Terminal No.	Connection
●	1	Door Lock Controller
●	2	Door Lock Switch
●	3	Keyless Entry Control Unit
●	4	Door Lock Relay
●	5	Door Lock Switch
●	6	Keyless Entry Control Unit
●	7	Diode 1
●	8	Flasher Unit
●	9	Hazard Warning Flasher Switch
●	10	Keyless Entry Control Unit

B-561 10P J/C 10L



Joint Point	Terminal No.	Connection
●	1	Instrument Panel(IP) Cluster.A
●	2	Cab Front(LH)
●	3	Data Link Connector
●	4	Inst H.~BAS H.
●	5	Inst H.~BAS H.
●	6	Inst H.~BAS H.
●	7	Cab J/B1.G
●	8	Inst H.~Door(LH) H.
●	9	Inst H.~Door(LH) H.
●	10	J/C~EA10P2

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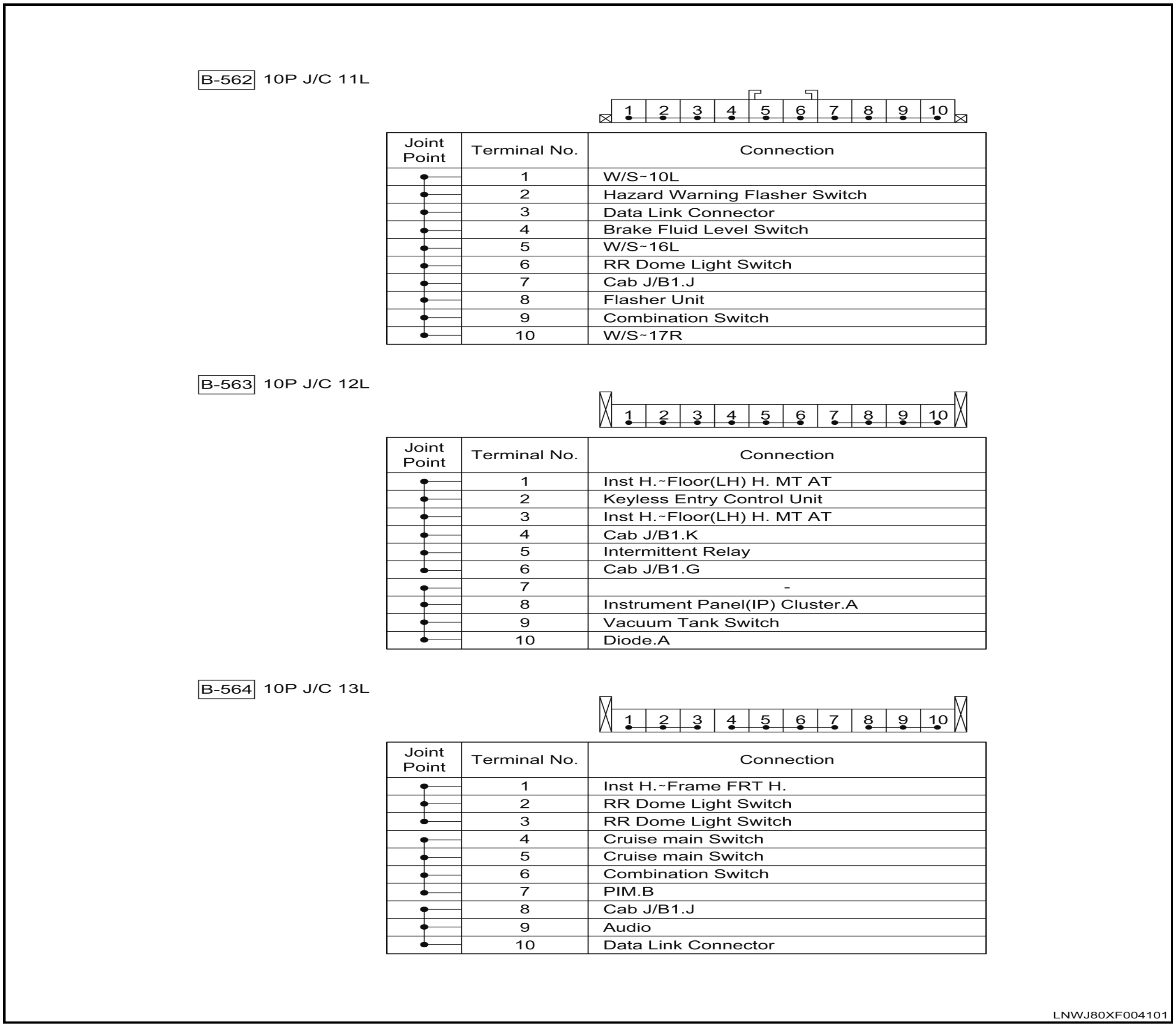

B-562 10P J/C 11L

Joint Point	Terminal No.	Connection
●	1	W/S~10L
●	2	Hazard Warning Flasher Switch
●	3	Data Link Connector
●	4	Brake Fluid Level Switch
●	5	W/S~16L
●	6	RR Dome Light Switch
●	7	Cab J/B1.J
●	8	Flasher Unit
●	9	Combination Switch
●	10	W/S~17R

B-563 10P J/C 12L

Joint Point	Terminal No.	Connection
●	1	Inst H.~Floor(LH) H. MT AT
●	2	Keyless Entry Control Unit
●	3	Inst H.~Floor(LH) H. MT AT
●	4	Cab J/B1.K
●	5	Intermittent Relay
●	6	Cab J/B1.G
●	7	-
●	8	Instrument Panel(IP) Cluster.A
●	9	Vacuum Tank Switch
●	10	Diode.A

B-564 10P J/C 13L

Joint Point	Terminal No.	Connection
●	1	Inst H.~Frame FRT H.
●	2	RR Dome Light Switch
●	3	RR Dome Light Switch
●	4	Cruise main Switch
●	5	Cruise main Switch
●	6	Combination Switch
●	7	PIM.B
●	8	Cab J/B1.J
●	9	Audio
●	10	Data Link Connector

LNWJ80XF004101

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Reference Table of Weld Splice

Connector No.	Usage
W/S-1	Frame H. - Towing H.
	Marker Light Relay
	Fuel Pump Relay
	Triple Pressure Switch
	Condenser Fan Motor
	Starter Relay
	Diode 2
	Back Buzzer (Upfitter Install)
	Frame RR H.-RR Combi H.
	Frame Center (RH)
W/S-1C	CAB J/B1.B
	DRL Control Unit.B
	Headlight (LH)

Reference Table of Weld Splice (cont'd)

Connector No.	Usage
W/S-2R	CAB J/B1.B
	DRL Control Unit.B
	Headlight (RH)
W/S-3R	Fan Control Switch
	Blower Resistor
	Blower Motor
W/S-4C	Blower Motor
	CAB J/B1.P
	Blower Relay
W/S-5L	Inst H.-Frame FRT H.
	Cigarette Lighter Relay
	CAB J/B1.P
W/S-6L	Inst H.-Frame FRT H.
	Inst H.-Frame FRT H.
	Ignition Switch
W/S-7L	CAB J/B1.M
	Inst H.-Frame FRT H.
	CAB J/B1.P
W/S-8L	Inst H.-Frame FRT H.
	Inst H.-Frame FRT H.
	Front Wiper Motor
	CAB J/B1.P
W/S-9C	FRT Wiper Motor
	Fan Control Switch
	Cab Front (LH)
	Cab Front (RH)
W/S-10L	EXT_ETB-4
	Cigarette Lighter.B
	Accessory Socket.B
	10P J/C 11L
	Cab Front (LH)
	Cab Front (RH)
W/S-11L	Inst H.-Floor (LH) H. MT AT
	Cigarette Lighter.A
	Fuse Block
W/S-12L	CAB J/B1.A
	RR Power Window Switch
	RR Power Window Switch
	Inst H.-Floor (RH) H.
	Inst H.-Floor (LH) H. MT AT
W/S-13L	RR Power Window Switch
	RR Power Window Switch
	RR Power Window Switch
	RR Power Window Switch
	J/C-EA 10P1

Reference Table of Weld Splice (cont'd)

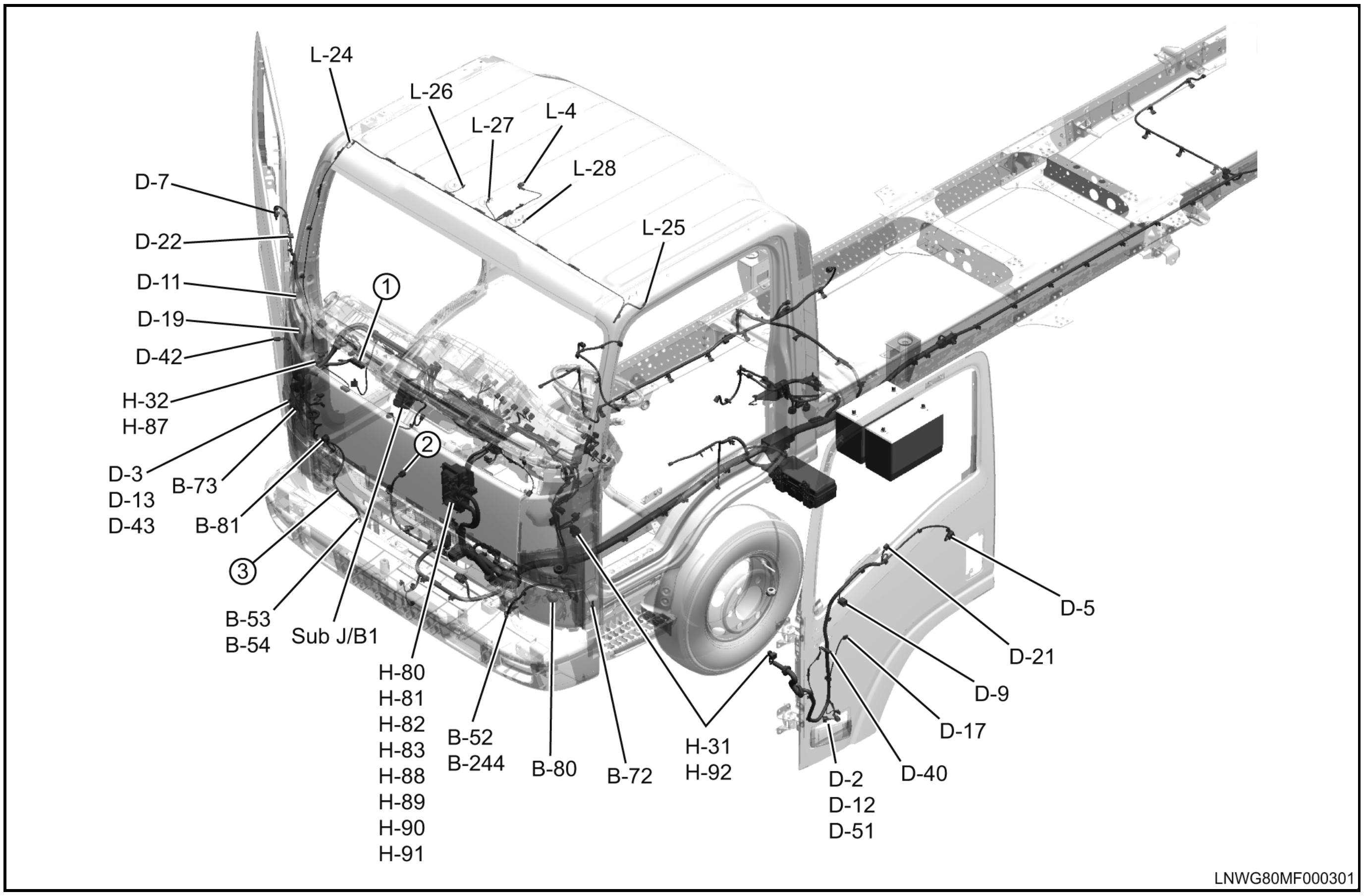
Connector No.	Usage
W/S-14L	Mirror Heater Switch
	Cruise Main Switch
	Miles Check Switch
	Audio
	Hazard Warning Flasher Switch
	RR Dome Light Switch
	Illumination Control Switch
	Inst H.- Floor (LH) H.
	RR Window Lock Switch
	Door Lock Switch
	Fan Control Switch
	Instrument Panel (IP) Cluster.A
W/S-15L	Mirror Heater Switch
	Cruise Main Switch
	Audio
	Instrument Panel (IP) Cluster.A
	Hazard Warning Flasher Switch
	Miles Check Switch
	CAB J/B1.E
	RR Dome Light Switch
	Door Lock Switch
	Illumination Control Switch
	Inst H.- Floor (LH) H.
	Fan Control Switch
W/S-16L	Stoplight Switch
	Wiper Switch
	Key Reminder Switch
	Combination Switch
	Inst H.- Door (LH) H.
	Instrument Panel (IP) Cluster.A
	CAB J/B1.C
	Key Lock Solenoid
	Inst H.- Floor (LH) H.
	Cigarette Lighter Relay
	Power Accessory Relay
	CAB J/B1.G
	Mirror Heater Switch
	10P J/C 11L

Reference Table of Weld Splice (cont'd)

Connector No.	Usage
W/S-17R	Inst H.- Roof H.
	Intermittent Relay
	Keyless Entry Control Unit
	Inst H.- Door (RH) H.
	CAB J/B1.C
	PIM.B
	Door Lock Relay
	10P J/C 11L
W/S-18L	Inst H.- Frame FRT H.
	CAB J/B1.J
	Audio
	Cigarette Lighter Relay
	Power Accessory Relay
	PIM.B
W/S-19R	Instrument Panel (IP) Cluster.A
	Flasher Unit
	Inst H.- Door (RH) H.
	FRT Turn Signal Light (RH)
	Inst H.- Frame FRT H.
W/S-20R	Keyless Entry Control Unit
	Inst H.- Floor (RH) H.
	Inst H.-Floor (LH) H.
	Inst H.- Roof H.
	Inst H.- Roof H.
	Inst H.- Floor (RH) H.
W/S-21R	FRT Position Light (LH)
	FRT Position Light (RH)
	A/C Switch
	Electronic Thermostat
	FRT Turn Signal Light (LH)
	FRT Turn Signal Light (RH)
	Cruise Main Switch
	Door Lock Relay
	Door Lock Switch
	J/C-EA 10P1
	Keyless Entry Control Unit
W/S-100R	FRT Wiper Motor
	CAB J/B1.E
	Intermittent Relay
W/S-101R	FRT Wiper Motor
	FRT Washer Motor
	CAB J/B1.E

Parts Location

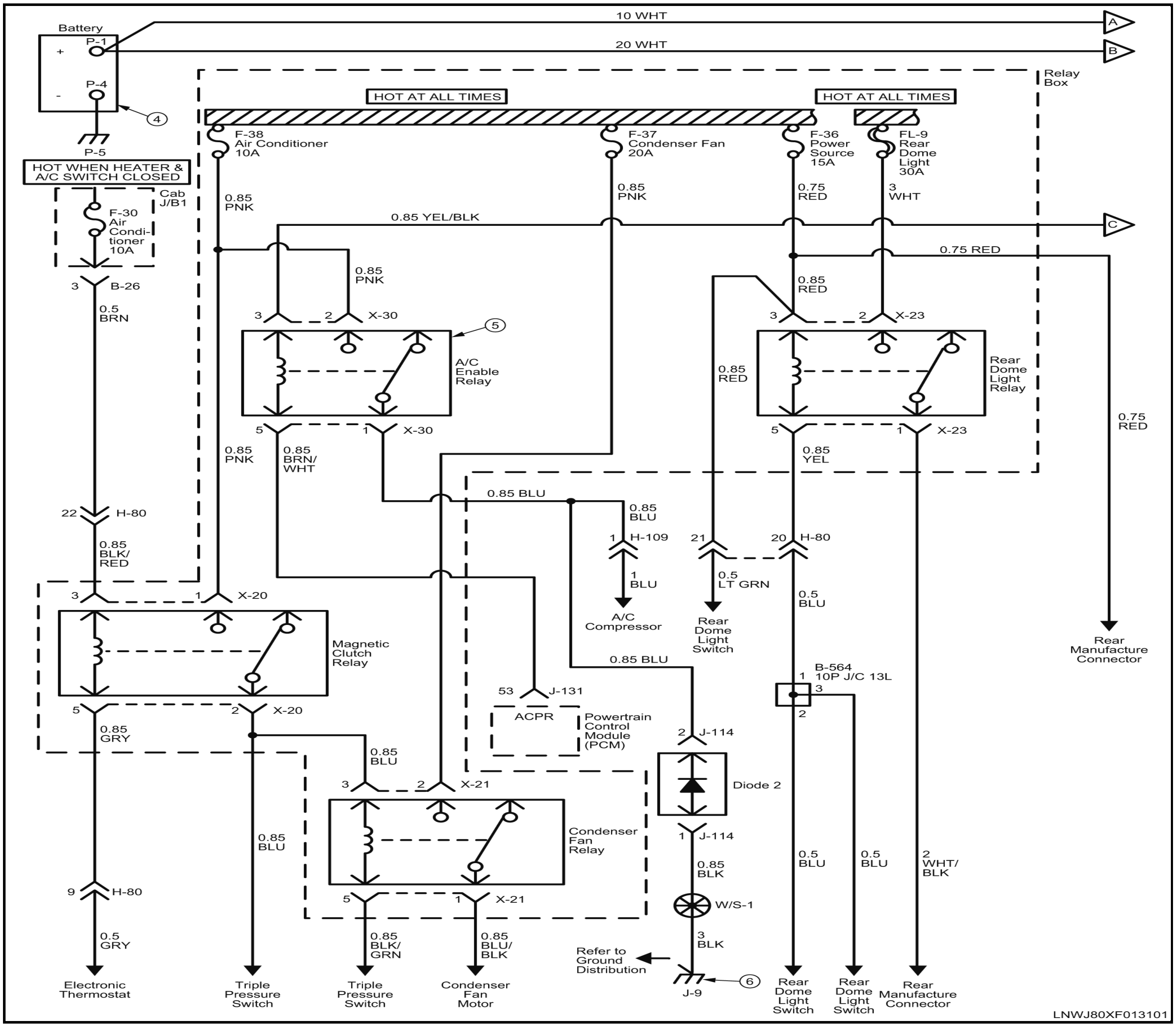
The parts location shows the location of the parts (1) and the connector (2) used in each harness routing (3).


L-24
L-26
L-27
L-4
L-28
D-7
D-22
L-25
D-11
①
D-19
D-42
H-32
H-87
②
D-3
D-13
D-43
B-73
B-81
③
D-5
B-53
B-54
Sub J/B1
D-21
H-80
H-81
H-82
H-83
H-88
H-89
H-90
H-91
D-9
D-17
B-52
B-244
B-80
B-72
H-31
H-92
D-40
D-2
D-12
D-51
LNWG80MF000301

4495884

Circuit Diagram

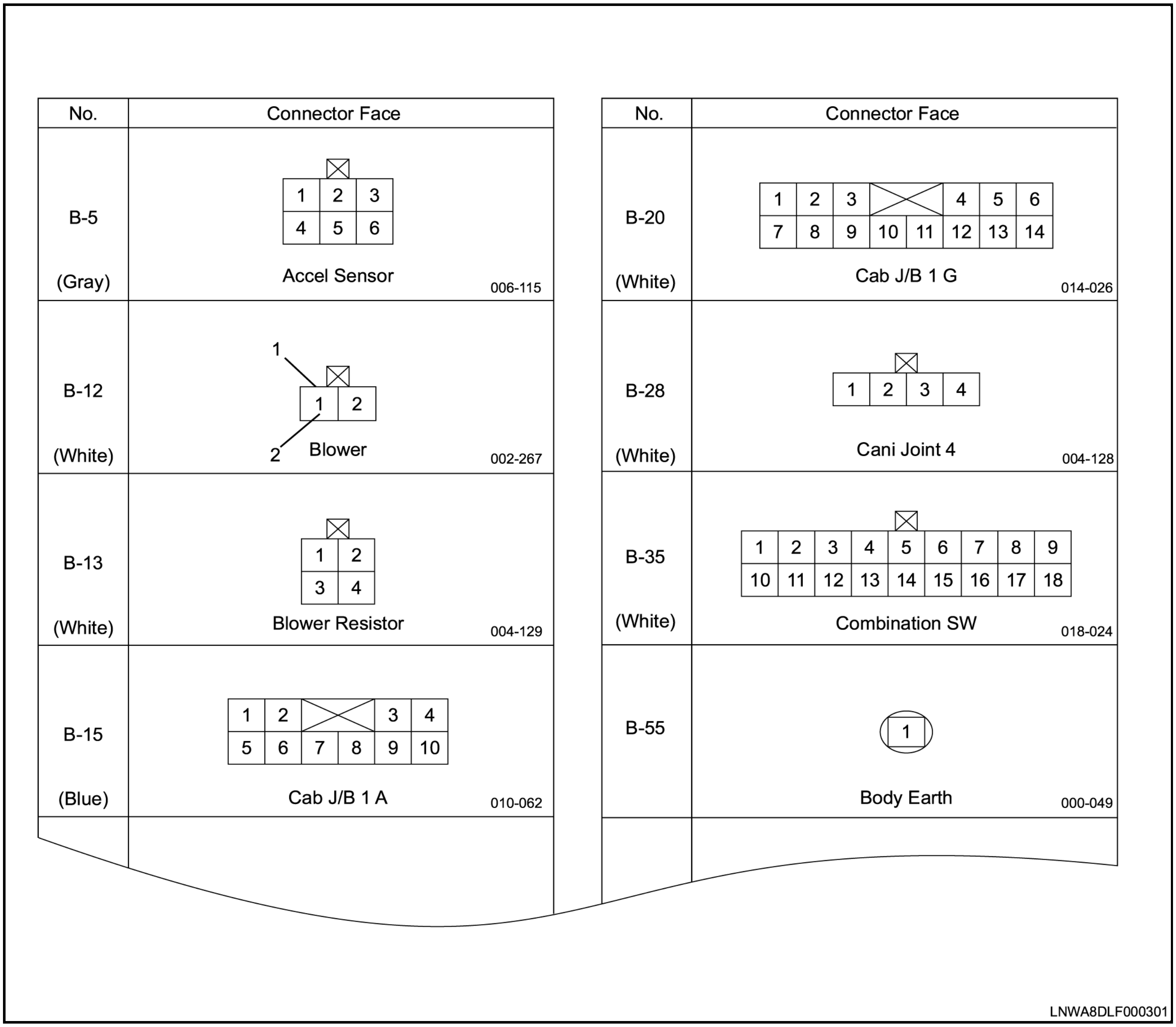
The circuit diagram shows the power supply (4) the load or loads (5) and the grounding point(s) (6).


Battery
P-1
+
P-4
-
4
P-5
10 WHT
A
20 WHT
B
Relay Box
HOT AT ALL TIMES
HOT AT ALL TIMES
F-38 Air Conditioner 10A
F-37 Condenser Fan 20A
F-36 Power Source 15A
FL-9 Rear Dome Light 30A
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
0.85 PNK
0.85 PNK
0.75 RED
3 WHT
0.85 YEL/BLK
C
0.75 RED
0.85 PNK
0.85 RED
3 B-26
0.5 BRN
3
2
X-30
5
A/C Enable Relay
5
1
X-30
0.85 PNK
0.85 BRN/WHT
3
2
X-23
Rear Dome Light Relay
0.85 RED
5
1
X-23
0.85 YEL
0.75 RED
22 H-80
0.85 BLK/RED
0.85 BLU
0.85 BLU
1 H-109
1 BLU
A/C Compressor
21
20 H-80
0.5 LT GRN
Rear Dome Light Switch
0.5 BLU
3
1
X-20
Magnetic Clutch Relay
5
2
X-20
0.85 GRY
0.85 BLU
0.85 BLU
53 J-131
ACPR
Powertrain Control Module (PCM)
2 J-114
Diode 2
1 J-114
0.85 BLK
W/S-1
3 BLK
B-564 10P J/C 13L
1
3
2
Rear Manufacture Connector
3
2
X-21
Condenser Fan Relay
5
1
X-21
0.85 BLU
9 H-80
0.5 GRY
0.85 BLK/GRN
0.85 BLU/BLK
Refer to Ground Distribution
J-9
6
0.5 BLU
0.5 BLU
2 WHT/BLK
Electronic Thermostat
Triple Pressure Switch
Triple Pressure Switch
Condenser Fan Motor
Rear Dome Light Switch
Rear Dome Light Switch
Rear Manufacture Connector
LNWJ80XF013101

4958963

Connector List

The connector list shows each connector’s configuration (1) and the pin number (2).


No.
Connector Face
B-5
(Gray)
Accel Sensor
006-115
B-12
(White)
Blower
002-267
B-13
(White)
Blower Resistor
004-129
B-15
(Blue)
Cab J/B 1 A
010-062
B-20
(White)
Cab J/B 1 G
014-026
B-28
(White)
Cani Joint 4
004-128
B-35
(White)
Combination SW
018-024
B-55
Body Earth
000-049
LNWA8DLF000301

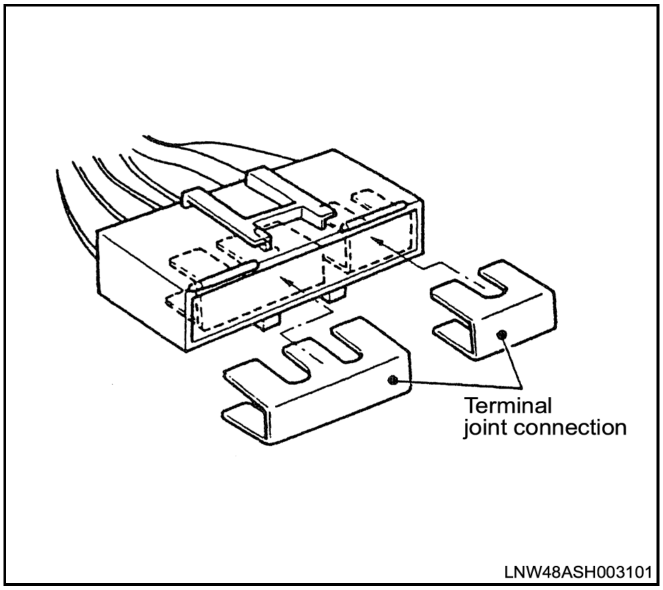
4495892

Connector Symbol

Connector Symbol	Harness name
B	Body (Inst.) Harness
D	Door Harness
E	Engine Harness
H	For Joint between Harnesses
J	Frame Front and Frame Rear Harness
L	Dome Light Harness
N	Floor Harness (LH and RH)
P	Battery Harness
X	Body and Frame Front Harness

Joint Connection

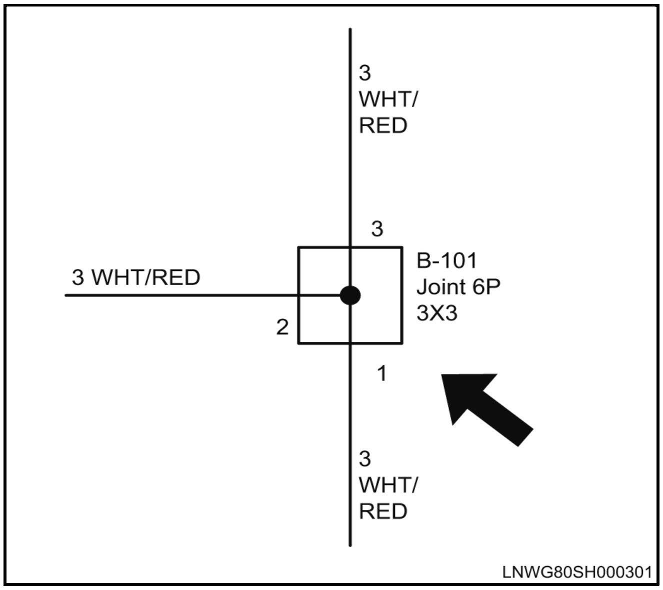
This connector has the structure of plural number of terminals collectively connected inside the connector.


Terminal
joint connection
LNW48ASH003101

4495894

How to show joint connection in the circuit diagram

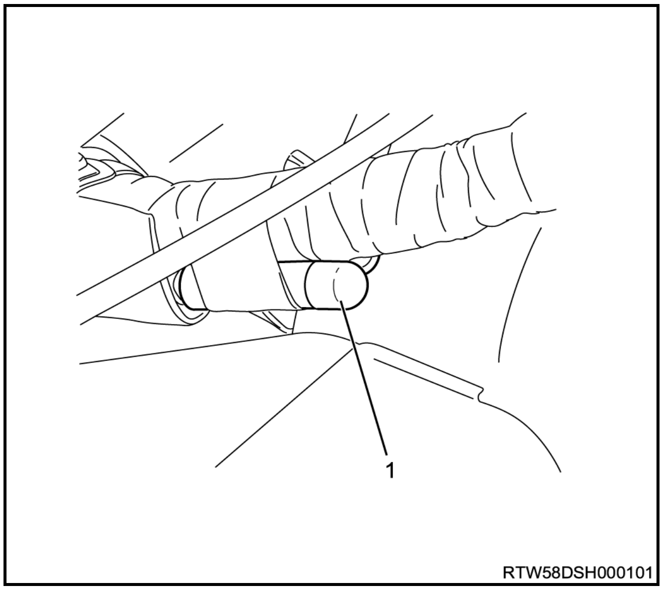
1. When joint connection can be shown as actual circuit diagram.


3
WHT/
RED
3
3 WHT/RED
B-101
Joint 6P
3X3
2
1
3
WHT/
RED
LNWG80SH000301

4495898

Weld Splice

Weld splice is a harness that welds the point of the harness and does joint.


1
RTW58DSH000101

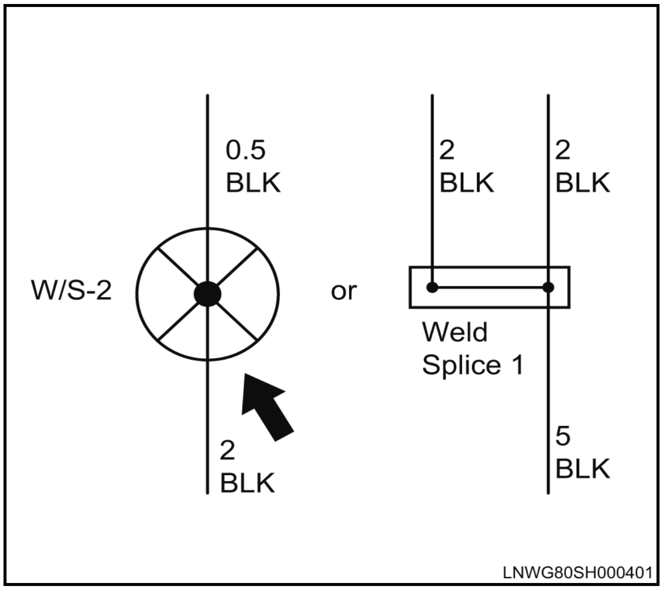
4495896

Legend

(1) Weld Splice

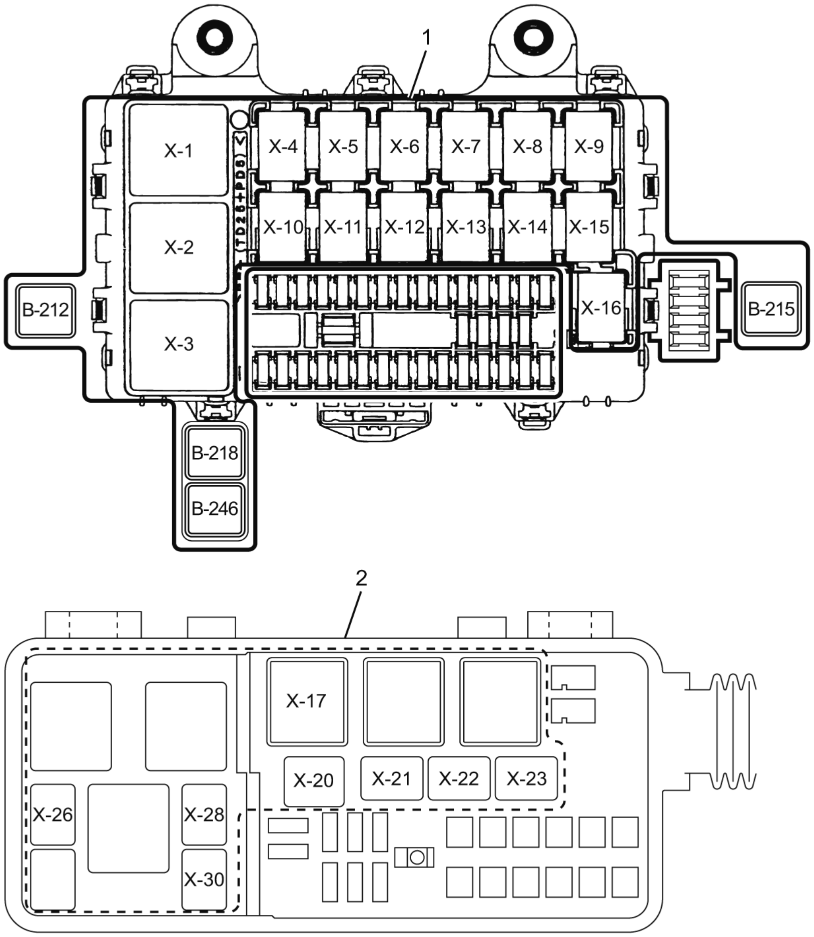
How to show weld splice in the circuit diagram

1. When weld splice can be shown as actual circuit diagram.


0.5
BLK
W/S-2
2
BLK
or
2
BLK
2
BLK
Weld
Splice 1
5
BLK
LNWG80SH000401

4495899

Relay Location


1
X-1
(TD26+PD6)
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
B-212
B-215
B-218
B-246
2
X-17
X-20
X-21
X-22
X-23
X-26
X-28
X-30

LNWJ80LF000201

4956373

Legend

(1)	Cab Junction Block	(2)	Relay Box

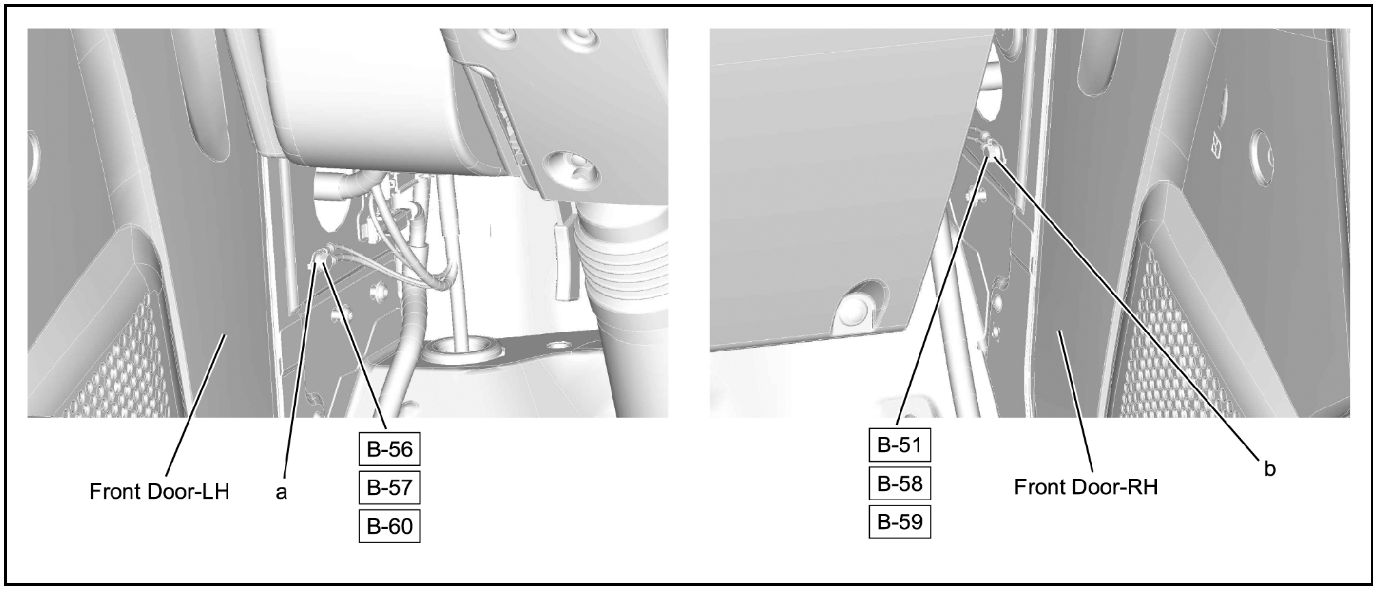
Relay List

Connector No.	Relay Name
X-1	Stoplight
X-2	Daytime Running Light
X-3	Key On
X-4	TCM
X-5	P/N Start
X-6	Wiper Main
X-7	Horn
X-8	Wiper High/Low
X-9	Trailer Brake
X-10	Rear Power Window
X-11	Charge
X-12	Front Power Window
X-13	Headlight (Low)
X-14	Vacuum Pump

Relay List (cont'd)

Connector No.	Relay Name
X-15	Headlight (High)
X-16	Taillight
B-212	Power Accessory
B-215	Blower
B-218	Cigarette Lighter
B-246	Cornering Light
X-17	Starter
X-20	Magnetic Clutch
X-21	Condenser Fan
X-22	Fuel Pump
X-23	Rear Dome Light
X-26	Marker Light
X-28	PCM Main
X-30	A/C Enable

Ground Views

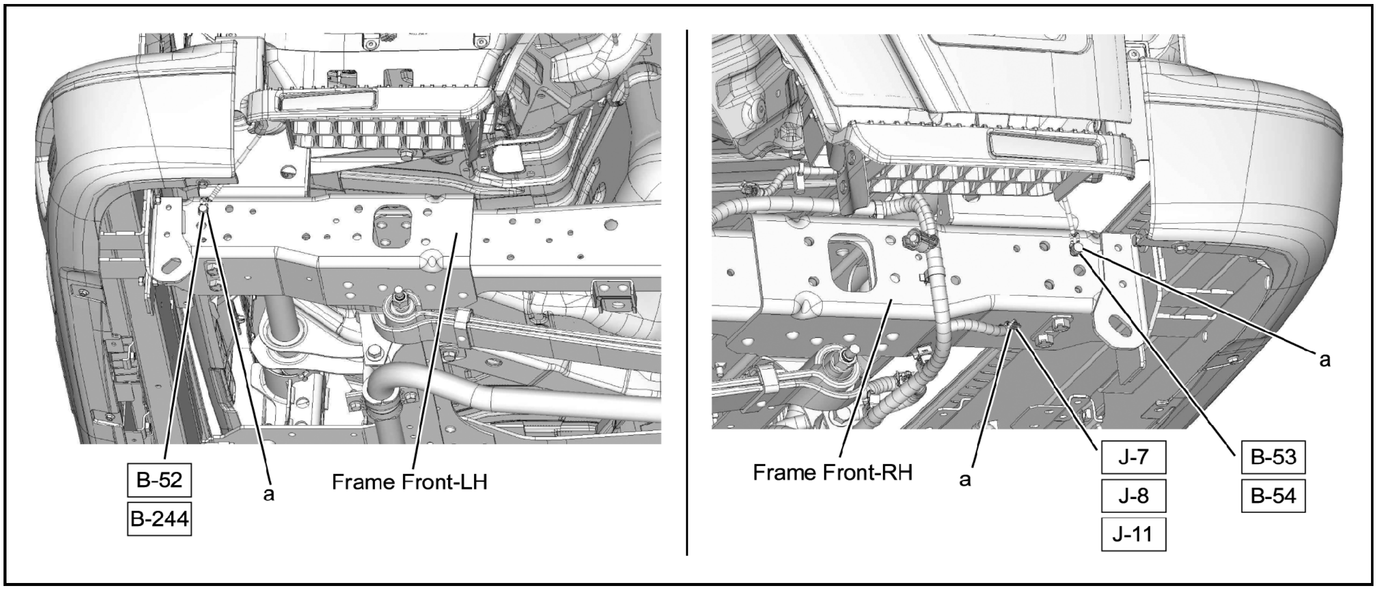

B-56
B-57
B-60
Front Door-LH
a
B-51
B-58
B-59
Front Door-RH
b

4556206

Legend

(a) 20 N•m (15 lb ft)

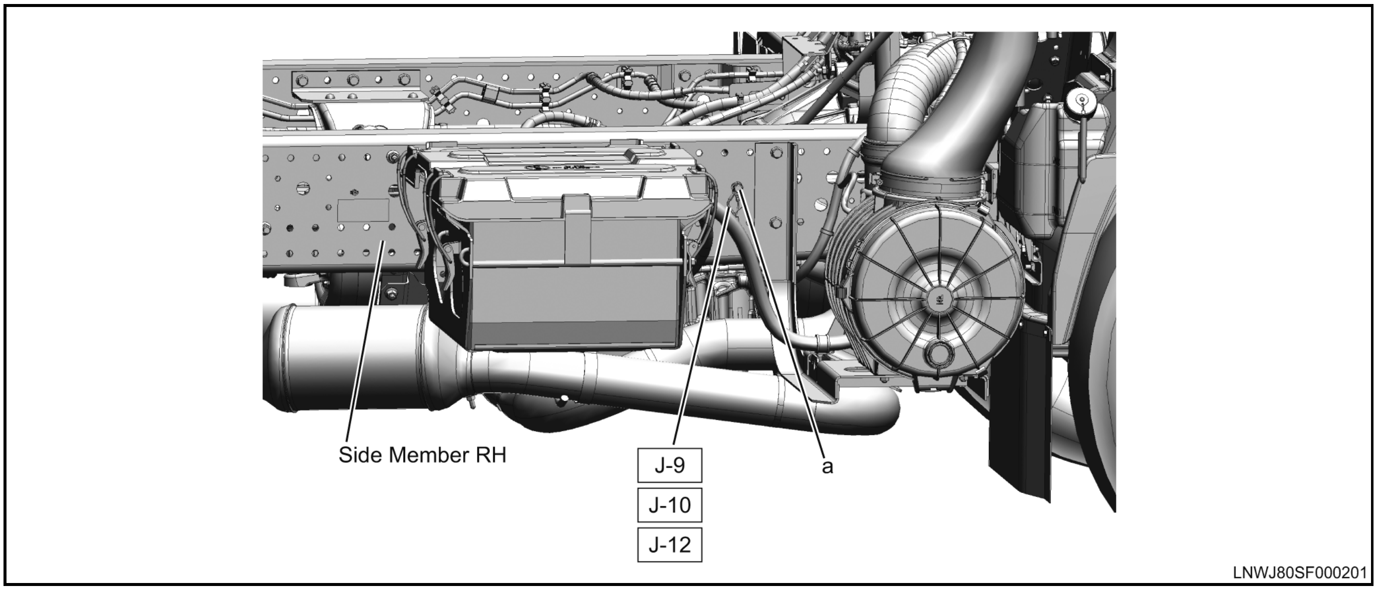
(b) 8 N•m (71 lb in)


B-52
B-244
a
Frame Front-LH
Frame Front-RH
a
J-7
J-8
J-11
B-53
B-54
a

4556209

Legend

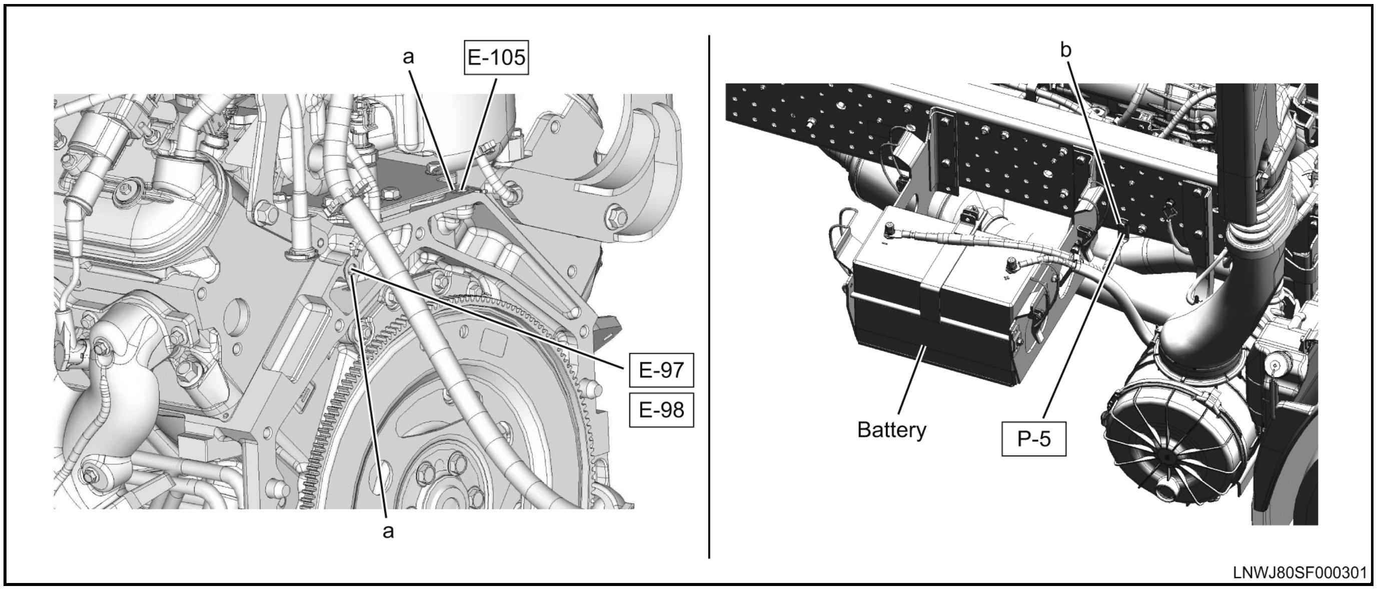
(a) 26 N•m (19 lb ft)


Side Member RH
J-9
J-10
J-12
a
LNWJ80SF000201

4956644

Legend

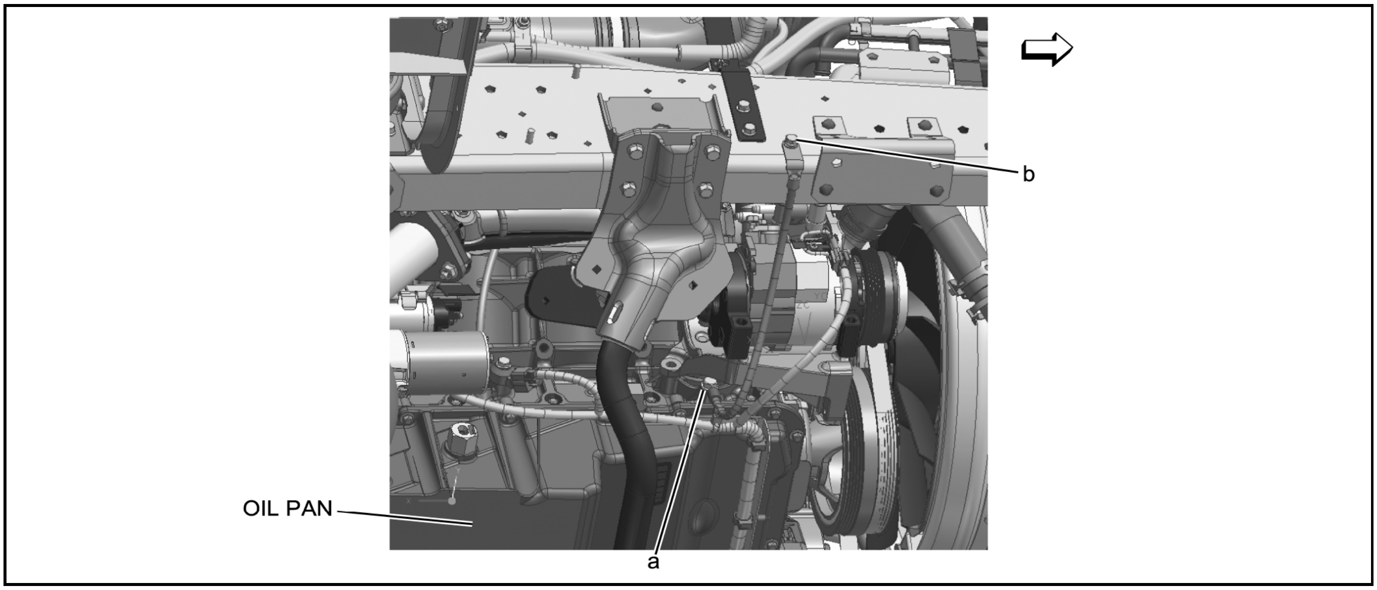
(a) 26 N•m (19 lb ft)


a
E-105
E-97
E-98
a
b
Battery
P-5
LNWJ80SF000301

4956645

Legend

(a)	16 N•m (12 lb ft)	(b)	26 N•m (19 lb ft)



4556223

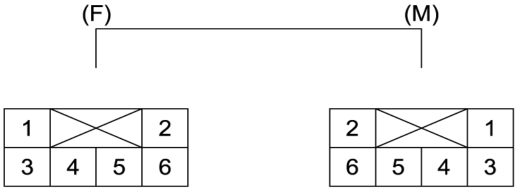
Legend

(a)	50 N•m (37 lb ft)	(b)	17 N•m (13 lb ft)

Visual Identification

Inline Harness Connector End Views

H-31



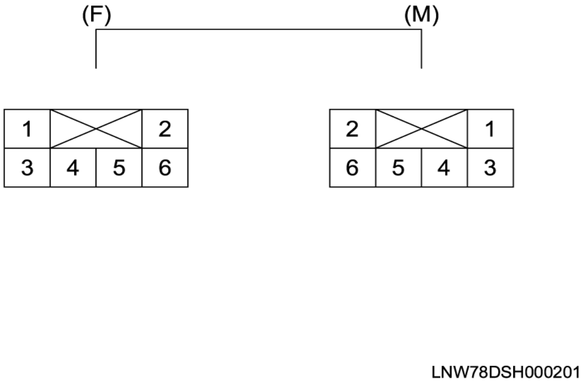
LNW78DSH000201

4497201

Connector No.	H-31			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLK	W/S-16L	BLK	Side Turn Signal Light (LH)
2	BRN	10P J/C 2L B-508 (7)	GRN/BLK	Side Turn Signal Light (LH)
3	BLU	10P J/C 6L B-519 (5)	GRN/RED	Side Marker Light (LH)

Connector No.	**H-31**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
4	ORN	Audio	ORN	Speaker (LH)
5	GRN/BLK	Combination Switch	GRN/BLK	Front Cornering Light (LH)
6	BLK	Audio	BLK	Speaker (LH)

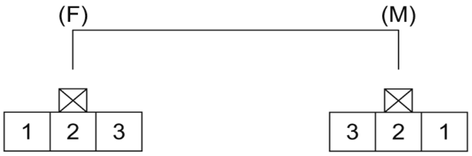
H-32



4497201

Connector No.	**H-32**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLK	W/S-17R	BLK	Side Turn Signal Light (RH)
2	BRN	W/S-19L	GRN/WHT	Side Turn Signal Light (RH)
3	BLU	10P J/C 6L B-519 (7)	GRN/RED	Side Marker Light (RH)
4	GRY	Audio	GRY	Speaker (RH)
5	GRN/WHT	Combination Switch	GRN/WHT	Front Cornering Light (RH)
6	GRN	Audio	GRN	Speaker (RH)

H-33

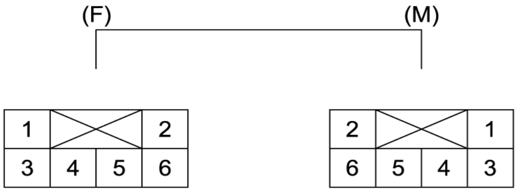


LNWF80SH000401

4497106

Connector No.	H-33			
Connector Color	Black			
Test Adapter No.	(M) J-35616-44		(F) J-35616-45	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	YEL	W/S-20R	GRY	Door Switch RH
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used

H-45



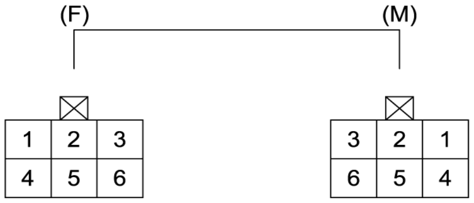
LNW78DSH000201

4497201

Connector No.	H-45			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED	J/C-31	—	Not Used
2	RED	J/C-31	RED	Dome Light
3	YEL	W/S-20R	GRY/BLU	Dome Light
4	BLU	10P J/C 6L B-519 (6)	GRN/RED	J/C-7
5	YEL	W/S-20R	—	Not Used
6	BLK	W/S-17R	BLK	J/C-5

	Male		Female (C-Cab)	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	RED	Rear Dome Light
2	—	—	RED	Dome Light
3	—	—	GRY/BLU	Dome Light
4	—	—	GRN/RED	J/C-7
5	—	—	GRY/BLU	Rear Dome Light
6	—	—	BLK	J/C-5

H-49



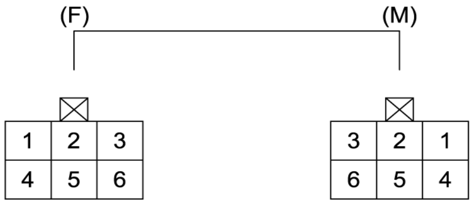
LNW78DSH000301

4506948

Connector No.	H-49			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/WHT	H-93 (6)	RED/WHT	Rear Power Window Switch (LH)
2	GRN/BLK	H-93 (14)	GRN/BLK	Rear Power Window Switch (LH)

Connector No.	**H-49**			
Connector Color	**Gray**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
3	GRN/YEL	H-93 (1)	GRN/YEL	Rear Power Window Switch (LH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-93 (18)	GRN/YEL	Rear Door Lock Motor (LH)
6	GRN/RED	H-93 (11)	GRN/RED	Rear Door Lock Motor (LH)

H-51

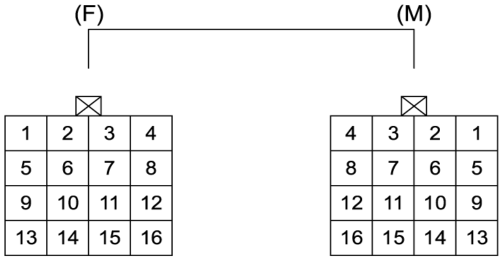


LNW78DSH000301

4506948

Connector No.	**H-51**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	RED/WHT	H-86 (10)	RED/WHT	Rear Power Window Switch (RH)
2	GRN	H-86 (9)	GRN/BLK	Rear Power Window Switch (RH)
3	BLU/YEL	H-86 (8)	GRN/YEL	Rear Power Window Switch (RH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-86 (6)	GRN/YEL	Rear Door Lock Motor (RH)
6	GRN/RED	H-86 (5)	GRN/RED	Rear Door Lock Motor (RH)

H-52

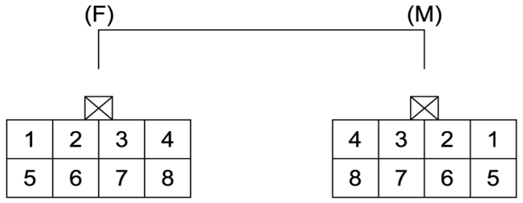


LNW78DSH000401

4497222

Connector No.	H-52			
Connector Color	Black			
Test Adapter No.	(M) J-35616-12		(F) J-35616-13	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU	H-113 (4)	BLU	Fuse PCM2 (20A)
2	VIO/WHT	Transmission Control Module (TCM)	VIO/WHT	Powertrain Control Module (PCM) A
3	RED/BLK	Transmission Control Module (TCM)	RED/BLK	H-81 (7)
4	BRN	Canister Purge Solenoid Valve	BRN	Fuse PCM3 (20A)
5	YEL/BLK	Powertrain Control Module (PCM).B	YEL/BLK	Fuse PCM1 (20A)
6	BLK/BLU	Transmission Control Module (TCM)	BLK/BLU	Powertrain Control Module (PCM) A
7	RED/YEL	Transmission Control Module (TCM)	RED/YEL	Powertrain Control Module (PCM) A
8	GRN/WHT	Transmission Control Module (TCM)	GRN	H-66 (2)
9	WHT/RED	Powertrain Control Module (PCM).C	WHT/RED	H-81 (2)
10	WHT/GRN	Powertrain Control Module (PCM).C	WHT/GRN	H-81 (13)
11	GRN	Transmission Control Module (TCM)	GRN	H-83 (10)
12	GRN/WHT	Transmission Control Module (TCM)	GRN/WHT	H-83 (5)
13	YEL/BLK	H-112 (4)	YEL/BLK	Fuse PCM1 (20A)
14	BLK/YEL	Powertrain Control Module (PCM).C	BLK/YEL	H-81 (4)
15	GRN/WHT	Transmission Control Module (TCM)	GRN/WHT	Powertrain Control Module (PCM) A
16	GRN	Transmission Control Module (TCM)	GRN	Powertrain Control Module (PCM) A

H-66

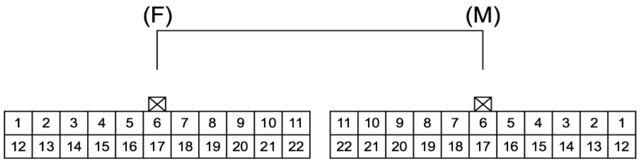


LNW78DSH000601

4497217

Connector No.	**H-66**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRN/BLK	Rear Combination Light (LH)	GRN/BLK	H-81 (5)
2	GRN	Rear Combination Light (RH)	GRN	H-81 (6)
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/RED	License Plate Light.A	GRN/RED	Marker Light Relay
6	RED/BLU	Rear Combination Light (LH)	RED/BLU	H-81 (23)
7	BLK	Rear Combination Light (RH)	BLK	W/S-1-Frame center (RH) J-9
8	GRN/WHT	Rear Combination Light (RH)	GRN/WHT	H-81 (3)

H-80



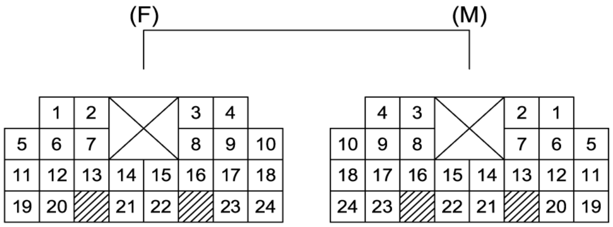
LNW78DSH004101

4497206

Connector No.	H-80			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	LT GRN	Data Link Connector	LT GRN/BLU	Electronic Hydraulic Control Unit (EHCU)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	BLU	Accelerator Pedal Position Sensor	VIO	Powertrain Control Module (PCM).A
6	—	Not Used	—	Not Used
7	LT GRN	Accelerator Pedal Position Sensor	WHT	Powertrain Control Module (PCM).A
8	BRN	Accelerator Pedal Position Sensor	RED/WHT	Powertrain Control Module (PCM).A
9	GRY	Electronic Thermostat	GRY	Magnetic Clutch Relay
10	LT GRN	Cab Junction Block1 B-19 (10)	GRN/RED	Marker Light Relay
11	BLU	Cab Junction Block1 B-20 (4)	BRK/YEL	Electronic Hydraulic Control Unit (EHCU)
12	BRN	Data Link Connector	LT GRN/RED	Electronic Hydraulic Control Unit (EHCU)
13	—	Not Used	—	Not Used
14	—	Not Used	—	Not Used
15	YEL	RR Body Switch	—	Not Used
16	—	Not Used	—	Not Used
17	VIO	Accelerator Pedal Position Sensor	BLU/WHT	Powertrain Control Module (PCM).A
18	LT BLU	Accelerator Pedal Position Sensor	VIO/RED	Powertrain Control Module (PCM).A

Connector No.	H-80			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
19	YEL	Accelerator Pedal Position Sensor	RED/WHT	Powertrain Control Module (PCM).A
20	BLU	10P J/C 13L B-564 (1)	YEL	Rear Dome Light Relay
21	LT GRN	Rear Dome Light Switch	RED	Rear Dome Light Relay
22	BRN	Cab Junction Block B-26 (3)	BLK/RED	Magnetic Clutch Relay

H-81



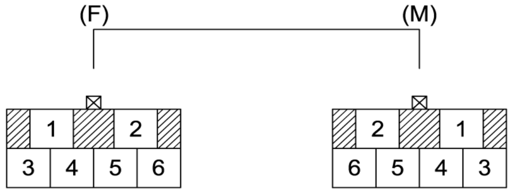
LNW78DSH004201

4497126

Connector No.	H-81			
Connector Color	Green			
Test Adapter No.	(M) J-35616-12/J-35616-40		(F) J-35616-13/J-35616-41	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/BLK	Cab Junction Block1 B-18 (9)	RED/BLK	Horn (LH)
2	WHT/RED	H-243 (2)	WHT/RED	H-52 (9)
3	BRN	W/S-19R	GRN/WHT	H-66 (8)
4	BLK/YEL	H-243 (5)	BLK/YEL	H-52 (14)
5	BRN	10P J/C 2L B-508 (9)	GRN/BLK	H-66 (1)
6	YEL	10P J/C 8L B-559 (2)	GRN	H-66 (2)
7	RED/BLK	Cab Junction Block B-15 (3)	RED/BLK	H-52 (3)
8	—	Not Used	—	Not Used
9	VIO	Instrument Panel (IP) Cluster.A	YEL/BLK	Powertrain Control Module (PCM).A
10	LT BLU	W/S-18L	RED/YEL	Powertrain Control Module (PCM).A
11	YEL	W/S-8L	GRN/BLK	Fuse Tail Main (20A)
12	BRN/YEL	PIM.B	BRN/YEL	Triple Pressure Switch

Connector No.	H-81			
Connector Color	Green			
Test Adapter No.	(M) J-35616-12/J-35616-40		(F) J-35616-13/J-35616-41	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
13	WHT/GRN	H-243 (6)	WHT/GRN	H-52 (10)
14	WHT/RED	W/S-7L	WHT/RED	SBF Headlight (30A)
15	BLK/RED	Cab Junction Block1 B-25 (1)	BLK/RED	SBF Starter Switch 1 (30A)
16	—	Not Used	—	Not Used
17	BRN	Cab Junction Block1 B-16 (4)	BRN/ORN	Powertrain Control Module (PCM).A
18	VIO	10P J/C 7L B-558 (5)	BLK/BLU	Powertrain Control Module (PCM).A
19	YEL	W/S-8L	GRN/BLK	Fuse Tail Main (20A)
20	—	Not Used	—	Not Used
21	BLK/YEL	W/S-5L	BLK/YEL	SBF Junction Block (50A)
22	WHT/BLK	Cab Junction Block1 B-26 (2)	WHT/BLK	SBF Wiper (50A)
23	BRN	10P J/C 5L B-520 (7)	RED/BLU	H-66 (6)
24	—	Not Used	—	Not Used

H-82



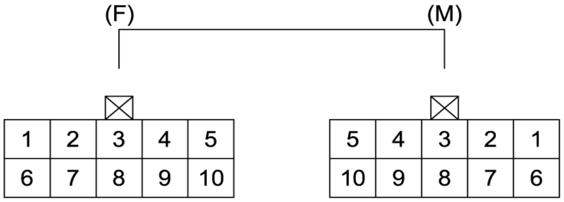
LNW78DSH004301

4497161

Connector No.	H-82			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-12/J-35616-44		(F) J-35616-13/J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	WHT/BLK	Blower Relay	WHT/BLK	SBF HVAC (40A)
2	RED/BLK	Power Accessory Relay	RED/BLK	SBF POWER ACC (50A)
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	BLK/YEL	W/S-6L	BLK/YEL	SBF Starter Switch 2 (40A)

Connector No.	H-82			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-12/J-35616-44		(F) J-35616-13/J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
6	BLK/YEL	W/S-6L	BLK/YEL	SBF Starter Switch 2 (40A)

H-83

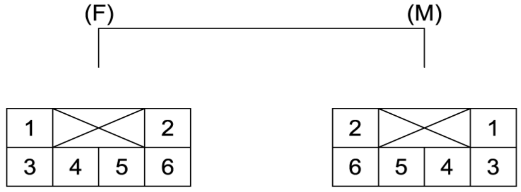


LNW78DSH000701

4497182

Connector No.	H-83			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU	PIM.A	BLU	Electronic Hydraulic Control Unit (EHCU)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/WHT	PIM.B	GRN/WHT	H-52 (12)
6	BLU/WHT	PIM.A	BLU/WHT	Electronic Hydraulic Control Unit (EHCU)
7	—	Not Used	—	Not Used
8	—	Not Used	—	Not Used
9	—	Not Used	—	Not Used
10	GRN	PIM.B	GRN	H-52 (11)

H-85



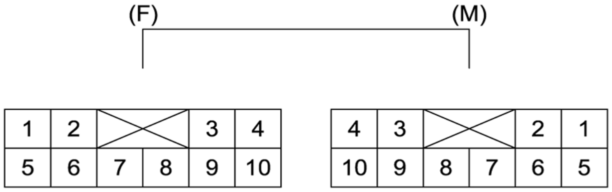
LNW78DSH000201

4497201

Connector No.	H-85			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	LT GRN/RED	Shift Lever Switch.B	BRN	W/S-15L
2	GRY	Door Switch (LH)	YEL	W/S-20R
3	LT GRN/BLK	Shift Lever Switch.B	LT GRN	W/S-14L
4	WHT/BLK	Parking Brake Switch	LT GRN	10P J/C 3R B-518 (7)
5	WHT/GRN	Seat Belt	WHT/GRN	Instrument Panel (IP) Cluster
6	BLK	J/C-1 (1)	BLK	W/S-16L

	Male (C-Cab)		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	LT GRN/RED	Shift Lever Switch.B	—	—
2	GRY	J/C-29	—	—
3	LT GRN/BLK	Shift Lever Switch.B	—	—
4	WHT/BLK	Parking Brake Switch.B	—	—
5	WHT/GRN	Seat Belt	—	—
6	BLK	J/C-1 (1)	—	—

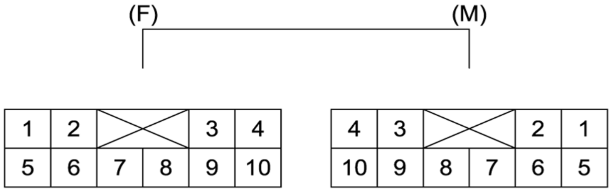
H-86



4497209

Connector No.	H-86			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	YEL	W/S-20R	GRY	Door Switch (RH)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	LT BLU	10P J/C 8L B-559 (7)	GRN/RED	H-51 (6)
6	BLU	10P J/C 2L B-508 (5)	GRN/YEL	H-51 (5)
7	—	Not Used	—	Not Used
8	LT BLU	Rear Power Window Switch (RH)	BLU/YEL	H-51 (3)
9	LT GRN	Rear Power Window Switch (RH)	GRN	H-51 (2)
10	RED/WHT	W/S-12L	RED/WHT	H-51 (1)

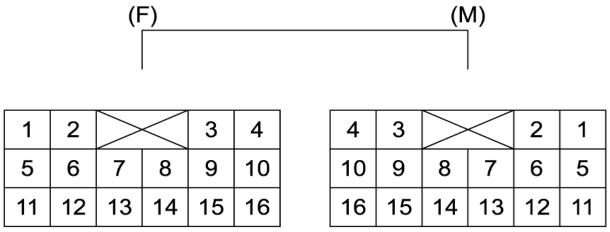
H-87



4497209

Connector No.	H-87			
Connector Color	Green			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRY	J/C-EA 10P1	BLK	Mirror Heater (RH)
2	LT BLU	10P J/C 8L B-559 (9)	GRN/RED	Front Door Lock Motor (RH)
3	LT BLU	10P J/C 3R B-518 (9)	BLK/RED	Front Cornering Light (RH)
4	BLU/WHT	H-92 (16)	BLU/WHT	Front Power Window Switch (RH)
5	BLK	J/C-EA 10P1	BLK	Side Marker Light (RH)
6	BRN/YEL	Cab Junction Block1 B-15 (5)	BRN/YEL	Front Power Window Switch (RH)
7	GRN/YEL	10P J/C 2L B-508 (2)	GRN/YEL	Front Door Lock Motor (RH)
8	BLU/RED	H-92 (4)	BLU/RED	Front Power Window Switch (RH)
9	RED/YEL	Mirror Heater Switch	RED/YEL	Mirror Heater (RH)
10	—	Not Used	—	Not Used

H-92

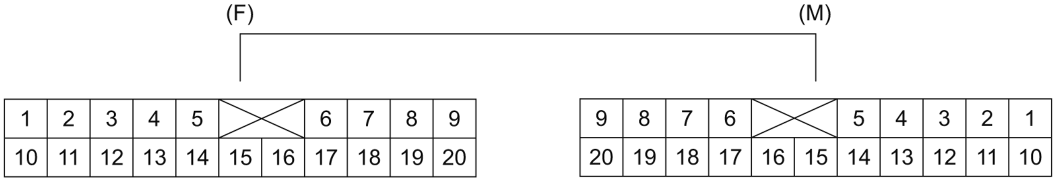


LNW78DSH001001

4497208

Connector No.	H-92			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	LT BLU	Cab Junction Block1 B-17 (6)	GRN/BLK	Front Door Lock Motor (LH)
2	LT BLU	10P J/C 3R B-518 (10)	BLK/RED	Front Cornering Light (LH)
3	LT BLU	Keyless Entry Control Unit	RED/GRN	Front Door Lock Motor (LH)
4	BLU/RED	H-87 (8)	BLU/RED	Front Power Window Switch (LH)
5	LT BLU	10P J/C 8L B-559 (8)	GRN/RED	Front Door Lock Motor (LH)
6	—	Not Used	—	Not Used
7	BRN/YEL	Cab Junction Block1 B-23 (2)	BRN/YEL	Front Power Window Switch (LH)
8	RED/YEL	Cab Junction Block1 B-17 (8)	RED/YEL	Mirror Heater (LH)
9	GRY	J/C-EA 10P2	BLK	Mirror Heater (LH)
10	GRY	10P J/C 10L B-561 (8)	BLK	Front Door Lock Motor (LH)
11	BLK	J/C-EA 10P2	BLK	H-92 (11)
12	—	Not Used	—	Not Used
13	BLU	10P J/C 2L N-508 (1)	GRN/YEL	Front Door Lock Motor (LH)
14	—	Not Used	—	Not Used
15	BLK	10P J/C 10L N-561 (9)	BLK	Side Marker Light (LH)
16	BLU/WHT	H-87 (4)	BLU/WHT	Front Power Window Switch (LH)

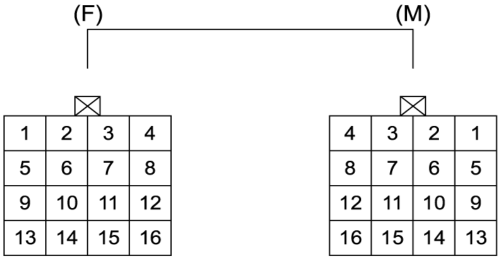
H-93



LNWJ80SF000101
4958468

Connector No.	**H-93**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU	H-49 (3)	BLU	RR Power Window Switch
2	BLU	Shift Lever Switch.A	BLU	Instrument Panel (IP) Cluster.B
3	RED/BLU	Shift Lever Switch.A	BRN	10P J/C 5L B-520 (6)
4	WHT/RED	Shift Lever Switch.A	WHT/RED	Instrument Panel (IP) Cluster.B
5	BLK/RED	Shift Lever Switch.A	BLK/RED	Instrument Panel (IP) Cluster.A
6	GRN/YEL	Shift Lever Switch.A	GRN/YEL	W/S-12L
7	RED/WHT	H-49 (1)	LT GRN	10P J/C 12L B-563 (3)
8	BLU/BLK	Shift Lever Switch.A	BLU/BLK	Instrument Panel (IP) Cluster.B
9	BLU/WHT	Shift Lever Switch.A	BLU/WHT	Instrument Panel (IP) Cluster.B
10	BLU/RED	Shift Lever Switch.A	BLU/RED	Instrument Panel (IP) Cluster.B
11	GRN/RED	H-49 (6)	LT BLU	10P J/C 8L B-558 (6)
12	GRN/YEL	Shift Lever Switch.A	GRN/YEL	Cab Junction Block B-21 (10)
13	VIO	Shift Lever Switch.B	VIO	Key Lock Solenoid
14	VIO	H-49 (2)	VIO	RR Power Window Switch
15	GRN	Shift Lever Switch.B	YEL	10P J/C 8L B-559 (5)
16	BLU/GRN	Shift Lever Switch.B	GRY	10P J/C 6L B-519 (1)
17	RED/BLK	Shift Lever Switch.B	LT GRN	10P J/C 12L B-563 (1)
18	GRN/YEL	H-49 (5)	BLU	10P J/C 2L B-508 (4)
19	BLU/YEL	Shift Lever Switch.A	BLU/YEL	Instrument Panel (IP) Cluster.B
20	RED/YEL	RR Heater	RED/YEL	W/S-11L

H-109



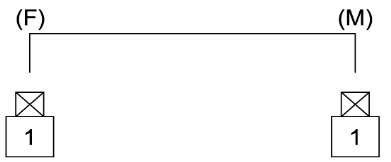
LNW78DSH000401

4497222

Connector No.	H-109			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-18/J-35616-42		(F) J-35616-19/J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU	A/C Compressor	BLU	A/C Enable Relay
2	GRN/BLK	Powertrain Control Module (PCM).C	GRN/BLK	Fuel Pump
3	BLU/RED	Powertrain Control Module (PCM).C	BLU/RED	FRT Heater Sensor (RH)
4	GRN	Powertrain Control Module (PCM).C	GRN	Fuel Pump
5	GRN/RED	Powertrain Control Module (PCM).C	GRN/RED	Fuel Vaper Sensor
6	WHT/BLU	AC Generator	WHT/BLU	Powertrain Control Module (PCM).A
7	GRN/WHT	Powertrain Control Module (PCM).C	GRN/WHT	Fuel Vaper Sensor
8	BLK	Powertrain Control Module (PCM).B	BLK	MAF & IAT Sensor
9	BLU	Powertrain Control Module (PCM).B	BLU	FRT Heater Sensor (RH)
10	BLU/BLK	Powertrain Control Module (PCM).B	BLU/BLK	FRT Heater Sensor (RH)
11	YEL/RED	Powertrain Control Module (PCM).C	YEL/RED	RR Heater Sensor (LH)
12	YEL/GRN	Powertrain Control Module (PCM).C	YEL/GRN	RR Heater Sensor (LH)
13	YEL	Powertrain Control Module (PCM).C	YEL	RR Heater Sensor (LH)
14	BLK/RED	Powertrain Control Module (PCM).C	BLK/RED	RR Heater Sensor (RH)
15	BLK/YEL	Powertrain Control Module (PCM).C	BLK/YEL	RR Heater Sensor (RH)

Connector No.	H-109			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-18/J-35616-42		(F) J-35616-19/J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
16	WHT	Powertrain Control Module (PCM).C	WHT	RR Heater Sensor (RH)

H-110

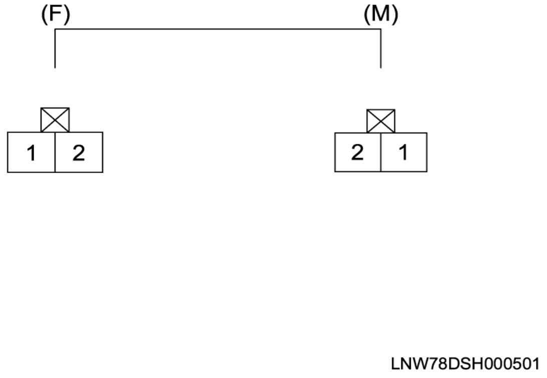


LNWA8DSH000601

4497220

Connector No.	H-110			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLK/WHT	Starter Relay	BLK/WHT	Starter

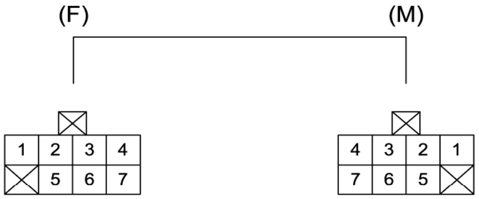
H-111


(F)
(M)
1
2
2
1
LNW78DSH000501

4497116

Connector No.	H-111			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	WHT	Relay Box	BLU	Battery
2	WHT	AC Generator	BLU	Battery

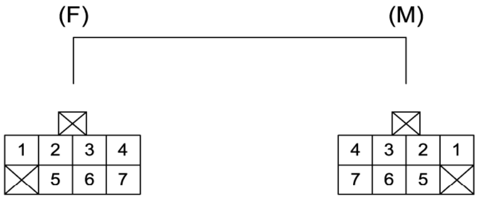
H-112


(F)
(M)
1
2
3
4
5
6
7
4
3
2
1
7
6
5

4557707

Connector No.	H-112			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-33		(F) J-35616-34	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	BRN	Powertrain Control Module (PCM).B
2	—	—	LT BLU	Powertrain Control Module (PCM).B
3	—	—	VIO	Powertrain Control Module (PCM).B
4	—	—	YEL/BLK	H-52 (13)
5	—	—	DAK GRN	Powertrain Control Module (PCM).B
6	—	—	ORN	Powertrain Control Module (PCM).B
7	—	—	BLK	Earth Body 25

H-113

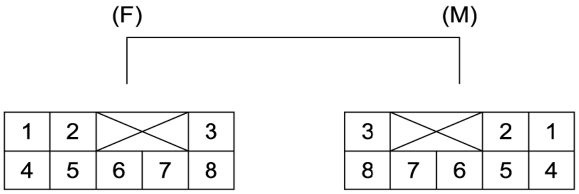


4557707

Connector No.	H-113			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-33		(F) J-35616-34	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	BRN	Powertrain Control Module (PCM).B
2	—	—	LT BLU/WHT	Powertrain Control Module (PCM).B
3	—	—	VIO/WHT	Powertrain Control Module (PCM).B
4	—	—	BLU	H-52 (1)
5	—	—	DAK GRN/WHT	Powertrain Control Module (PCM).B

Connector No.	H-113			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-33		(F) J-35616-34	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
6	—	—	ORN/WHT	Powertrain Control Module (PCM).B
7	—	—	BLK	Earth Body 25

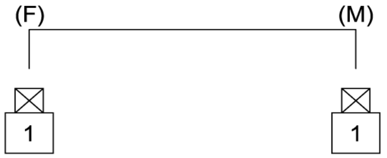
H-114



4557708

Connector No.	H-114			
Connector Color	White			
Test Adapter No.	(M) J-35616-2A		(F) J-35616-3	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRN/YEL	H-49 (3)	GRN/YEL	Rear Power Window Switch (LH)
2	GRN/BLK	H-49 (2)	GRN/BLK	Rear Power Window Switch (LH)
3	RED/WHT	H-49 (1)	RED/WHT	Weld Splice 12
4	—	Not Used	—	Not Used
5	—	Not Used	—	Not Used
6	—	Not Used	—	Not Used
7	GRN/RED	H-49 (6)	GRN/RED	Sub Junction Block B-253 (14)
8	GEN/YEL	H-49 (5)	GEN/YEL	Cab Junction Block 1 B-20 (7)

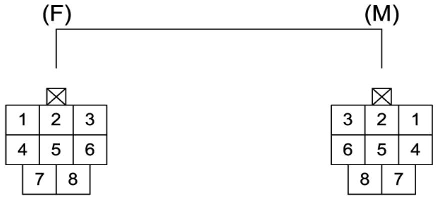
H-170



4557709

Connector No.	H-170			
Connector Color	Light Gray			
Test Adapter No.	(M) J-35616-44		(F) J-35616-45	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	RED/GRN	Relay Box FL-14 ETB	RED/GRN	EXT_ETB No.1

H-172

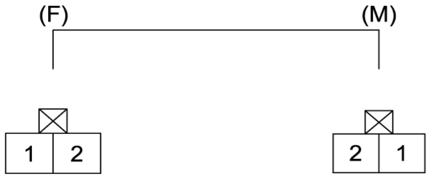


LNWA8DSH000501

4497846

Connector No.	H-172			
Connector Color	Black			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRN	H-66 (2)	—	—
2	GRN/RED	Maker Lamp Relay	—	—
3	GRN/BLK	H-66 (1)	—	—
4	GRN/WHT	H-66 (8)	—	—
5	BLK	W/S-1	—	—
6	—	Not Used	—	—
7	—	Not Used	—	—
8	WHT/BLU	Relay Box Fuse FL-16 Towing Converter (30A)	—	—

H-241

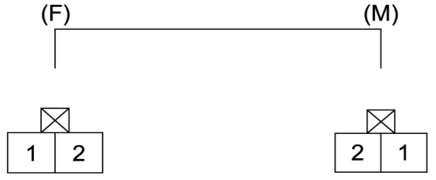


LNW78DSH000501

4712006

Connector No.	H-241			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	ORN/BLU	H-101 (14)	WHT	Wheel Speed Sensor Rear Left
2	WHT/BLU	H-101 (13)	GRN/BLK	Wheel Speed Sensor Rear Left

H-242

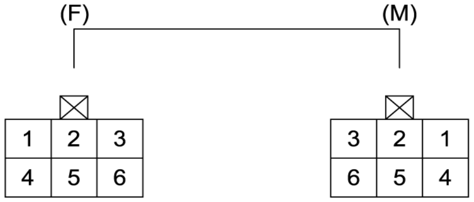


LNW78DSH000501

4712006

Connector No.	H-242			
Connector Color	(M) Black		(F) White	
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	VIO	H-101 (16)	WHT	Wheel Speed Sensor Rear Right
2	WHT	H-101 (15)	BLK	Wheel Speed Sensor Rear Right

H-243



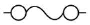
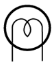
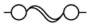
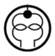
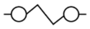
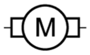
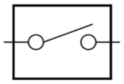
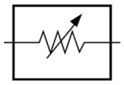
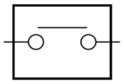
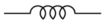
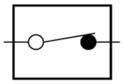
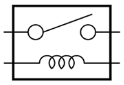
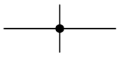
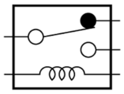
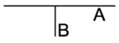
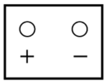
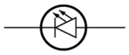
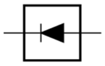
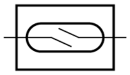
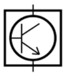
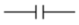
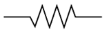
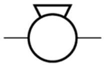
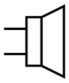
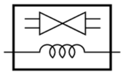
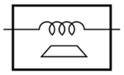
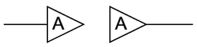
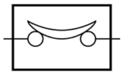
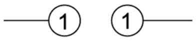
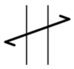
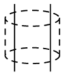
LNW78DSH000301

4506948

Connector No.	**H-243**			
Connector Color	**Gray**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLK	10P J/C 10L B-561 (4)	BLK	Brake Apply Sensor
2	WHT/RED	H-81 (2)	WHT/RED	Brake Apply Sensor
3	BLK	10P J/C 10L B-561 (5)	BLK	Brake Apply Sensor
4	BLK	10P J/C 10L B-561 (6)	BLK	Brake Apply Sensor
5	BLK/YEL	H-81 (4)	BLK/YEL	Brake Apply Sensor
6	WHT/GRN	H-81 (13)	WHT/GRN	Brake Apply Sensor

Diagnostic Information and Procedures

Electrical Schematic Symbols

Symbol	Meaning of Symbol	Symbol	Meaning of Symbol
	Fuse		Bulb
	Slow blow fuse		Double filament bulb
	Fusible link wire		Motor
	Switch (Normal open type)		Variable register Rheostat
	Switch		Coil (inductor), solenoid, magnetic valve
	Switch (Normal close type)		Relay (Normal open type)
	Contact wiring		Relay (Normal close type)
	Selection of harness. It displays selecting shared.		
	Battery		Light emitting diode
	Diode		Reed switch
	Electronic Parts		Condenser
	Resistor		Horn
	Speaker		Vacuum switching valve
	Buzzer		Arrow shows circuit continues to the deferent page
	Circuit breaker		Arrow shows circuit continues in the same page
	Twist Pair		Shield

4495734

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